

The goal of this study is to train a model in order to predict whether a patient has Parkinson's Disease or not. The dataset used in this case study is found in <u>https://www.kaggle.com/datasets/</u>

rabieelkharoua/parkinsons-disease-dataset-analysis/data and has 35 features and 2104 labelled samples. This dataset comprises comprehensive health information for 2,105 patients diagnosed with Parkinson's Disease, each uniquely identified with IDs ranging from 3058 to 5162. The dataset includes demographic details, lifestyle factors, medical history, clinical measurements, cognitive and functional assessments, symptoms, and a diagnosis indicator.

The dataset contains no missing values and includes several categorical features. Some of these features represent binary yes/no data, encoded as 0 for "No" and 1 for "Yes". Additionally, other categorical features contain multiple levels with corresponding numeric codes, as detailed below:

Gender:

- Male (0)
- Female (1)

Ethnicity:

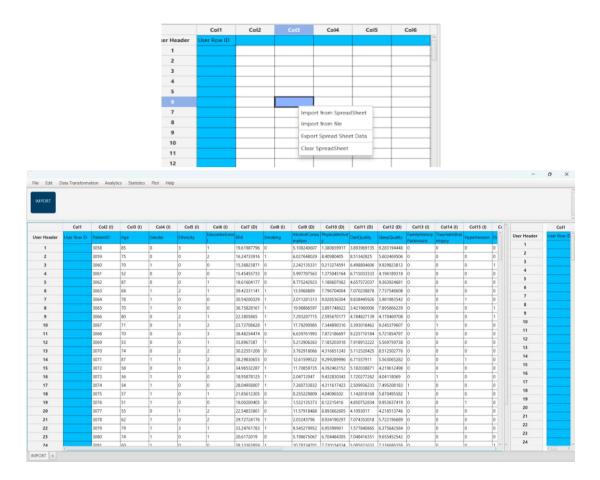
- Caucasian (0)
- African American (1)
- Asian (2)
- Other (3)

Education Level:

- None (0)
- High School (1)
- Bachelor's (2)
- Higher (3)

Step 1: Import data from file

Right click on the input spreadsheet and choose the option "Import from file". Then navigate through your files to load the one with the Parkinson's Disease data.



Step 2: Manipulate data

In order to use the data for training we have to exclude any columns that do not contain features, like the "PatientID" and "DoctorInCharge" columns. We follow these steps to execute this:

- On the menu click on "Data Transformation" \rightarrow "Data Manipulation" \rightarrow "Select Column(s)".
- Select all columns except the ones that corresponds to the "PatientID" and "DoctorInCharge" columns.

	Normalizers	- +					
IMPORT		n 🕨 Remo	ve Column(s)				
	Split	Select	Column(s)				
	Variable Selectio	n 🔸 Matri	Transpose			_	
User Header	CholesteroiLC	Chol Sort b	y Column ssing Column(s) ¹	5 (D)	Col26 (D)	Col27 (D) FunctionalAss	Col28 (I) Tremor
1	148.1256228		5 1357.50/114		29.18128929	essment 1.57242719	1
2	153,7564627	77,2281169			12,33263929	4,787551289	0
3	118,7025999	85.5883043		67.83817038	29.92778257	2.130686361	1
4	136.2991857	51.8696263		52.964696	21.30426765	3.391287728	1
5	108.4494516			21.80487995	8.336364344	3.200969265	0
6	91.75021789	54.4889189		101.9125361	27.37057998	6.824779088	0
7	145.8014102	64.0456738	8 319.8548154	37.45372032	17.43268452	0.502747423	1
8	67.92444318	25.0276429	5 390.3443988	181.1725651	11.06521577	1.190610866	1
9	187.2632817	44.3932272	5 214.6045905	178.2615214	10.93660363	3.43811054	0
10	103.3268064	35.0019638	7 208.0519545	115.9658693	26.22667174	5.346981874	0
11	171.6164371	47.2850309	388.849641	95.33227725	9.752893189	8.143079875	0
12	56.81325717	49.5790951	3 211.4685558	172.0119093	5.645201248	4.611534379	1
13	114.998706	36.3896919	4 110.1443384	91.07454148	15.76718518	0.113299317	1
14	140.5566446	38.4406144	1 239.2732758	142.1213411	9.630378313	4.062880373	1
15	173.6984936	94.3664530	1 200.0564256	166.0883853	25.89198438	6.737817766	1
16	123.7729235	55.1768840	1 304.4557584	165.7093981	19.61603188	1.236369489	0
17	146.1256633	59.1955384	9 190.5462611	171.3969966	10.20975186	2.915269794	1
18	180.1036566	98.1335228	3 352.3589317	165.8033946	6.245518372	9.484132372	1
19	132.8126041	76.6587701	2 312.4965525	82.68315261	24.59424896	9.777935816	1
20	198.7733809	84.9230126		114.9612645	28.39274874	3.610648347	0
21	174.6371563	98.1910020	1 320.7749182	160.5481977	5.90592491	7.660661328	1
22	146.9228976				8.102326075	8.917259449	1
23	126.4353845		6 384.2657385 7 385 1932516		8.597587589	5.481853259	-

The data without the "PatientID" and "DoctorInCharge" columns will appear in the output spreadsheet.

Step 3: Split data

Create a new tab by pressing the "+" button on the bottom of the page with the name "TRAIN_TEST_SPLIT" which we will use for splitting to create the train and test set.

Import data into the input spreadsheet of the "TRAIN_TEST_SPLIT" tab from the output of the "IMPORT" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".

	Col1	Col2	Col3	Col4	Col5	Col6	
User Header	User Row ID						
1							Γ
2							
			Import	from SpreadShe	et		
4				from file			
5							
6				Spread Sheet Da	ata		
7			Clear S	preadSheet			
8							
9							
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Split the dataset by choosing: "Data Transformation" \rightarrow "Split" \rightarrow "Random Partitioning". Then choose the "Training set percentage" and the column for the sampling as shown below:

Random Partitioning	×
Training set percentage	75
Usage of random generator seed	24066204583300
✓ Stratified sampling	Col34 Diagnosis
Execute	Cancel

IMPORT	TRAIN_TEST_SPU																	
	Col1	Col2 (I)	Col3 (I)	Col4 (I)	Col5 (I)	Col6 (D)	Col7 (I)	Col8 (D)		Col1	Col2 (I)	Col3 (I)	Col4 (I)	Col5 (I)	Col6 (D)	Col7 (I)	Col8 (D)	Co
User Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	вмі	Smoking	AlcoholCc mption	User Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	BMI	Smoking	AlcoholConsu mption	Physi
1		85	0	3	1	19.61987796	0	5.1082406	1		85	0	3	1	19.61987796	0	5.108240607	1.380
2		75	0	0	2	16.24733916	1	6.0276480	2		75	0	0	2	16.24733916	1	6.027648029	8.405
3		70	1	0	0	15.36823871	0	2.2421353	3		52	0	0	0	15.45455733	0	5.997787563	1.375
4		52	0	0	0	15.45455733	0	5.9977875	4		87	0	0	1	18.61604177	0	9.775242923	1.188
5		87	0	0	1	18.61604177	0	9.7752429	5		78	1	0	0	30.54200329	1	2.011281313	9.028
6		68	1	2	1	39.42331141	1	13.596888	6		70	1	0	0	36.75828161	1	19.98886597	3.891
7		78	1	0	0	30.54200329	1	2.0112813	7		80	0	2	1	22.3805865	1	7.293287715	2.595
8		70	1	0	0	36.75828161	1	19.988865	8		71	0	3	2	23.72708628	1	17.78290985	7.344
9		80	0	2	1	22.3805865	1	7.2932877	9		70	0	0	3	38.48254474	0	6.639761993	7.872
10		71	0	3	2	23.72708628	1	17.782909	10		74	0	2	2	30.22551208	0	3.762918066	4.316
11		70	0	0	3	38.48254474	0	6.6397619	11		87	1	1	2	38.29830655	0	12.61599522	9.299
12		53	0	0	1	35.8967387	1	5.2129062	12		56	1	0	0	18.95878125	1	2.04712047	9.432
13		74	0	2	2	30.22551208	0	3.7629180	13		54	1	0	0	28.04958007	1	7.260733832	4.311
14		87	1	1	2	38.29830655	0	12.615995	14		57	1	0	1	21.85612305	0	0.255229809	4.040
15		58	0	0	3	34.96532287	1	11.708597	15		55	0	1	2	22.54833861	0	11.57918488	8.893
16		56	1	0	0	18.95878125	1	2.0471204	16		62	1	0	2	29.72724176	1	2.03243796	8.934
17		54	1	0	0	28.04958007	1	7.2607338	17		79	1	3	1	33.24761783	1	9.545279952	6.955
18		57	1	0	1	21.85612305	0	0.2552298	18		74	1	0	1	20.6172019	0	5.198675067	6.704
19		51	1	0	0	19.00200405	0	1.5321353	19		60	1	0	0	38.13363959	1	10.78134701	7.720
20		55	0	1	2	22.54833861	0	11.579184	20		71	1	2	1	15.86360295	0	19.59171834	7.242
21		62	1	0	2	29.72724176	1	2.0324379	21		79	1	1	2	36.90543424	0	9.89059796	7.678
22		79	1	3	1	33.24761783	1	9.5452799	22		66	0	0	2	23.68997318	0	11.42519836	0.957
23		74	1	0	1	20.6172019	0	5.1986750	23		78	0	1	3	25.89636742	0	17.90479619	9.869
24		60	1	0	0	28 12262050	1	10 781347 ~	24	< (61	0	0	2	26 76272472	4	3 600017123	2 007

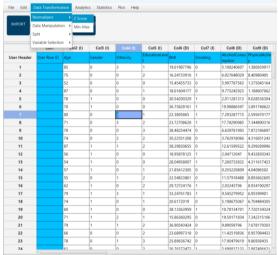
Step 4: Normalize the training set

Create a new tab by pressing the "+" button on the bottom of the page with the name "NORMALISE_TRAIN_SET".

Import data into the input spreadsheet of the "NORMALISE_TRAIN_SET" tab the train set from the output of the "TRAIN_TEST_SPLIT" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet". From the available Select input tab options choose "TRAIN_TEST_SPLIT: Training Set".

IPORT	TRAIN_TEST_SPUT	T NORMALISE IT	nain, set														
	Col1	Col2 (I)	Col3 (I)	Col4 (I)	Col5 (I)	Col6 (D)	Col7 (I)	Col8 (D)	Col9 (D)		Col1	Col2	Col3	Col4	Col5	Col6	Col7
r Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	вмі	Smoking	AlcoholConsu mption	PhysicalActivi 2	User Header	User Row ID						
1		85	0	3	1	19.61987796	0	5.108240607	1.380659917	1							Ļ
2		75	0	0	2	16.24733916	1	6.027648029	8.40980405	2							
3		52	0	0	0	15.45455733	0	5.997787563	1.375045164	3							<u> </u>
4		87	0	0	1	18.61604177	0	9.775242923	1.188607062	4							<u> </u>
5		78	1	0	0	30.54200329	1	2.011281313	9.028536304	5							<u> </u>
6		70	1	0	0	36.75828161	1	19.98886597	3.891748622	6							<u> </u>
		80	0	2	1	22.3805865	1	7.293287715	2.595670177	7							
8		71	0	3	2	23.72708628	1	17.78290985	7.344890316	8							
9		70	0	0	3	38.48254474	0	6.639761993	7.872186697								
10		74	0	2	2	30.22551208	0	3.762918066	4.316651243	10							
11		87	1	1	2	38.29830655	0	12.61599522	9.299289996	11							<u> </u>
12		56	1	0	0	18.95878125	1	2.04712047	9.432830343	12							<u> </u>
13		54	1	0	0	28.04958007	1	7.260733832	4.311617423	13							
14		57	1	0	1	21.85612305	0	0.255229809	4.04096502	14							<u> </u>
15		55	0	1	2	22.54833861	0	11.57918488	8.893662605	16							<u> </u>
16		62	1	0	2	29.72724176	1	2.03243796	8.934190297	10							
17		79	1	3	1	33.24761783	1	9.545279952	6.95599901	18							
18		74	1	0	1		0	5.198675067		19							
19		60	1	0	0	38.13363959	1	10.78134701		20							-
20		71	1	2	1	15.86360295		19.59171834		21							
21		79	1	1		36.90543424		9.89059796		22							
22		66	0	0	2	23.68997318		11.42519836		23							
23		78	0	1	3	25.89636742	0	17.90479619	9.86938435	24							<u> </u>

Normalize the data using Z-score by browsing: "Data Transformation" \rightarrow "Normalizers" \rightarrow "Z-Score". Then select all columns and click "Execute".



ZScore Normalizer		×
Excluded Columns	Included Columns	
Col34 Diagnosis	 Col26 FunctionalAssessme Col27 Tremor Col28 Rigidity Col29 Bradykinesia Col30 PosturalInstability Col31 SpeechProblems Col32 SleepDisorders Col33 Constipation 	
Execute	te	

DRT TRAIN_TEST_SPLIT NORMALISE_TRAIN_SET +

ð File Edit Data Transformation Analytics Statistics Plot Help Col1 Col2 (I)
 Col3 (I)
 Col4 (I)
 Col5 (I)
 Col6 (D)
 Col7 (I)
 Col8 (D)
 Col1 Col2 (D) Col3 (D) Col4 (D) Col5 (D) Col6 (D) User He 0 6109770 16.2473391
 1417
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 0.7092169641
 -1.560542520
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 5.027648 2 15.45455733 5.997787 2191987 3971186 071937 0707939 892366 6137969 6585 0.990231301 0.693013965 -1.512714754 -1.671902964 0.666607948 0.070987 18.61604177 9.7752429 2191987 3971186 7921294 5032697 9494684 02755 6758 -0.990231301 -0.693013965 -0.401748895 -1.227815702 -0.666607948 -0.0518 30.5420032 2.0112813 36,7582816 19.98886
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 18.9587812 2.0471204 9 13 28.0495800 7.2607338 36786 2191987 3971186 568551 651711 9494684 8826121 598502646 -0.990231301 1.2786419830 0.7092169641 0.4029428800 -0.666607948 -1.09915 14 15 21 85612305 0.2552208 10 04850/2649 - 0.499/02.31301 12.7286119830 0.7092169941 0.0022482000 -0.06660/3488 -1.05 7013937 0939697 02572 0713937 0939697 9939697 9949684 4481 7252566758 1.0092255077 0.2628140088 0.7092169641 15369113089 -0.6666079480 0.442 8088 -64324 02926714 0.793913965 1-512714754 1.179671787 1.1991820744 1.338 11.579184 22.5483386 11 16 17 29.72724176 2.0324379 33.2476178 9.5452799 12 86114 64324 3971186 7921294 7088758 892366 5679644 356919598 1.0092255077 -0.693013965 -1.512714754 0.0972941549 1.4991820744 -0.48988 18 0.6172019 5.1986750 13
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 19 20 38 13363950 10 781347 14 19.591718 15.8636029 21 22 36.90543424 15 9 890597 11.425198 3.6899731 16 23 25.89636742 17.904796
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 0.8274519022
 1.4991820744
 -0.09194
 24 36 76372472 6988171 IMPORT TRAIN_TEST_SPLIT NORMALISE_TRAIN_SET +

The results will appear on the output spreadsheet.

Step 5: Normalize the test set

Create a new tab by pressing the "+" button on the bottom of the page with the name "NORMALISE_TEST_SET".

Import data into the input spreadsheet of the "NORMALISE_TEST_SET" tab the test set from the output of the "TRAIN_TEST_SPLIT" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet". From the available Select input tab options choose "TRAIN_TEST_SPLIT: Test Set".

le Edit Di	ata Transformat	tion Analyti	cs Statistics	Plot Help												-	0	;
MPORT	TRAIN_TEST_SPLIT	NORMALISE, T																
	Col1	Col2 (I)	Col3 (I)	Col4 (I)	Col5 (I)	Col6 (D)	Col7 (I)	Col8 (D)	Col9 (D)		Col1	Col2	Col3	Col4	Col5	Col6	Col7	
lser Header	User Row ID	Age	Gender	Ethnicity	EducationLev	евмі	Smoking	AlcoholConsu mption	PhysicalAc	User Header	User Row ID							
1		70	1	0	0	15.36823871	0	2.242135331	0.2132745	1								_
2		68	1	2	1	39.42331141	1	13.5968889	7.7967040	2								
3		53	0	0	1	35.8967387	1	5.212906263	7.1852030	3								
4		58	0	0	3	34.96532287	1	11.70859735	4.3924631	4								
5		51	1	0	0	19.00200405	0	1.532135373	8.1221541	5								_
6		63	1	1	3	32.53263836	0	1.094654252	8.0915424	6								_
7		56	0	1	0	16.11707674	0	4.473425263	9.6204920	7								
8		69	1	1	1	18.7230873	0	0.543629553	9.3659498	8								_
9		72	1	0	1	29.85370804	1	5.418741531	1.0356313	9								
10		60	0	0	0	31.93604901	0	8.241282371	7.9181040	10								
11		73	1	0	1	30.70951465	0	16.91863358	4.2184886	11								
12		58	1	0	1	17.52217944	0	11.6197039	6.9720368	12								
13		58	1	1	1	17.61243635	0	8.239722525	1.9625576	13								
14		75	0	3	1	30.00437964	0	3.737186934	6.2632734	14								
15		57	1	1	1	15.94157373	1	17.09450292	5.1732513	15								_
16		72	0	3	1	16.02239896	0	6.469157837	3.3422069	16								_
17		50	0	1	3	32.01090917	0	0.606812251	2.5999824	17								
		55	1	3	0	15.7567057	0	12.02304347	1.8164269	18								
18								15.36062935		19				1				

IMPORT TRAIN_TEST_SPLIT NORMALISE_TRAIN_SET NORMALISE_TEST_SET +

Normalize the test set using the existing normalizer of the training set by browsing: "Analytics" \rightarrow "Existing Model Utilization" \rightarrow "Model (from Tab:) NORMALISE_TRAIN_SET".

MPORT	TRAN_TEST_SPLIT	Clusteri Anomai	ation	> > on					Existing Model Execution Model (from Tab:)NORMALISE_TR Type Z Score Normalizer Model
	Col1	Col2 (I)	Col3 (I)	Col4 (I)	Col5 (I)	Col6 (D)	Col7 (I)	Col8 (D)	Description
ser Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	e BMI	Smoking	AlcoholConsu mption	
1		70	1	0	0	15.36823871	0	2.242135331	Model Input
2		68	1	2	1	39.42331141	1	13.5968889	Header -> Datatype
3		53	0	0	1	35.8967387	1	5.212906263	Age -> Double
4		58	0	0	3	34.96532287	1	11.70859735	Gender -> Double
5		51	1	0	0	19.00200405	0	1.532135373	Ethnicity -> Double
6		63	1	1	3	32.53263836	0	1.094654252	
		56	0	1	0	16.11707674	0	4.473425263	
8		69	1	1	1	18.7230873	0	0.543629553	BMI -> Double
9		72	1	0	1	29.85370804	1	5.418741531	Smoking -> Double
10		60	0	0	0	31.93604901	0	8.241282371	AlcoholConsumption -> Double
11		73	1	0	1	30.70951465	0	16.91863358	PhysicalActivity -> Double
12		58	1	0	1	17.52217944	0	11.6197039	Transfer Column(s) to Output
13		58	1	1	1	17.61243635		8.239722525	
14		75	0	3	1	30.00437964	0	3.737186934	
15		57	1	1	1	15.94157373	1	17.09450292	Execute Cancel
16		72	0	3	1		0	6.469157837	
17		50	0	1	3	32.01090917	0	0.606812251	
18		55	1	3	0		0	12.02304347	
19		81	1	0	1	34.31655447	0	15.36062935	

IMPORT	TRAIN, TEST, SPUT	NORMAUSE,	AIN_SET	Tot Top														
	Col1	Col2 (I)	Col3 (I)	Col4 (I)	Col5 (I)	Col6 (D)	Col7 (I)	Col8 (D)	Col9 (D)		Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	T
User Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	BMI	Smoking	AlcoholConsu	PhysicalAc 🗅	User Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	BMI	Smoking	ľ
1		70	1	0	0	15.36823871	0	2.242135331	0.2132745	1			1.0092255077		-1.512714754			8
2		68	1	2	1	39.42331141	1	13.5968889	7.7967040			20436786 -0.148180694	64324 1.0092255077	3971186	7921294	7520748	9494684 1.4991820744	4
3		53	0	0	1	35.8967387	1	5.212906263	7.1852030	2		42942722	64324	02972	3424679	188734	892366	
4		58	0	0	3	34.96532287	1	11.70859735	4.3924631	3		-1.443258092	-0.990231301	-0.693013965				4
5		51	1	0	0	19.00200405	0	1.532135373	8.1221541			0534073	2191987	3971186 -0.693013965	3424679 1.8201828235	397585 1.0687344208	892366	4
6		63	1	1	3	32.53263836	0	1.094654252	8.0915424	4		1787473	2191987	3971186	568551	821103	892366	1
7		56	0	1	0	16.11707674	0	4.473425263	9.6204920	5		-1.615935078			-1.512714754		-0.666607948 9494684	8
8	-	69	1	1	1	18.7230873	0	0.543629553	9.3659498			4032713 -0.579873160	64324 1.0092255077	3971186 0.2928140088	7921294 1.8201828235	2738495 0.7270201964		8
9		72	1	0	1	29.85370804	1	5.418741531	1.0356313	6		3040873	64324	0292674	568551	307249	9494684	
10		60	0	0	0		0	8.241282371	7.9181040	7		-1.184242612 5286114	-0.990231301 2191987	0.2928140088 0292674	-1.512714754 7921294	-1.578840216 1520092	-0.666607948 9494684	3
11		73	1	0	1	30,70951465	0	16.91863358	4.2184886	8		-0.061842201		0.2928140088		-1.212779235		8
12		58	1	0	1	17.52217944	-	11.6197039	6.9720368	•		25449522	64324	0292674	3424679	4691833	9494684	
13		58	1	1	1	17.61243635	-	8.239722525	1.9625576	9		0.1971732782 7030082	1.0092255077 64324	-0.693013965	-0.401748895 3424679	0.350/163259 9661695	1.4991820744	4
14		75	0	3	1	30.00437964	-	3.737186934	6.2632734	10		-0.838888639	-0.990231301	-0.693013965	-1.512714754	0.6432185089	-0.666607948	8
15		57	1	1	1	15.94157373	-	17.09450292	5.1732513			8288833 0.2835117714	2191987	3971186	7921294 -0.401748895	479507	9494684	
16		72	0	2		16.02239896		6.469157837	3.3422069	11		452328	64324	3971186	3424679	4990594	9494684	8
17		50	0	1	3	32.01090917	-	0.606812251	2.5999824	12		-1.011565626	1.0092255077	-0.693013965		-1.381468309		8
18		55	1	3	0	15.7567057	0	12.02304347	1.8164269			1787473	64324 1.0092255077	3971186	3424679	7534082	9494684	8
18		81	1	0			-			13		1787473	64324	0292674	3424679	952115	9494684	
				10		34.31655447	0	15.36062935	0.8390699			0 45 6 100 75 77	-0.990231301	0.0044600570	0.101710005		0.000000044	

Step 6: Feature selection

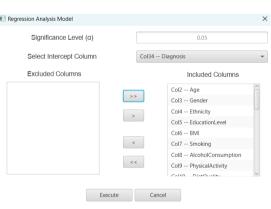
Create a new tab by pressing the "+" button on the bottom of the page with the name "FEATURE_SELECTION_REGRESSION".

Import data into the input spreadsheet of the "FEATURE_SELECTION_REGRESSION" tab from the output of the "NORMALISE_TRAIN_SET" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".

e Edit D	ata Transforma	tion Analytic	s Statistics	Plot Help														
MPORT	TRAIN_TEST_SPLI	NCHMAUSE, THA		crini, eaelon														
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)	Col9 (D)		Col1	Col2	Col3	Col4	Col5	Col6	Coli	7
er Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	BMI	Smoking	AlcoholConsu	PhysicalActivi =	User Header	User Row ID					()		L,
1				2.2644699572				-0.864818001	-1.261657768	1		_						
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2			+0.990231301	-0.693013965			1.4991820744		1.1711120459	3								
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3			2191987	3971186	7921294	5032697	9494684	027559	409774	5					-		-	-
		1.4922506758		-0.693013965				-0.051890553	-1.328126798									
4		942808	2191987	3971186	3424679	4317398	9494684	857816206	4204377	6								
5		0.7152042373			-1.512714754				1.385253785:	7								
		198929	64324	3971186	7921294	4647563	892366	510258	867963	8								
6		0.0244962919		-0.693013965 3971186				1.7271817393		9							-	-
		20436786 0.8878812236	64324	1.2786419830	7921294	378663 +0.699017793	892366	051028	32252336									
7		697569	2191987	02972	3424679	152291	892366	9587895	1953941	10								
		0.1108347850		1				1.3429346024		11								
		953688	2191987	469957203018	071937	2317884	892366	2081	319518	12								
9		0.0244962919	-0.990231301	-0.693013965	1.8201828235	1.5627913931	-0.666607948	-0.598048094	0.9850439780	13							-	-
я			2191987	3971186	568551	651711	9494684	8826121	178585	22		-			-	1		
10		0.3698502646			0.7092169641			-1.099154636	-0.245518258	14								
			2191987	02972	071937	9938967	9494684	4817781	97762694	15		1						
11		1.4922506758 942808	1.0092255077 64324	0.2928140088	0.7092169641 071937	1.5369118309	-0.666607948 9494684	0.4429293234 8395425	1.4789609845 450777	16								
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12			64324	3971186	7921294	7088758	892366	5679644	539214	1997						-		-
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13		8784755	64324	3971186	7921294	1550046	892366	47284867	9271764	19								
									-0.340932595~	**		1						

Choose the most important features for the classification using the Regression Analysis by browsing: "Data Transformation" \rightarrow "Variable Selection" \rightarrow "Regression Analysis". Then choose the "Diagnosis" column as the intercept column, the Significance level (α) as 0.05 and include all columns.

New Roy ID Age Gender Ethnicity Enclations of BAI Smalling Address Smalling 1 2 139571400 -994011301 2.54469972 -041744805 1.06000881 0.66607484 -0.646 2 94564181777 -999011301 -2.54469972 -0401744805 1.06000881 0.66667484 -0.646 2 94564 79307 -999011301 -0.699011965 -0107419641 -150601484 -0104 3 -0.5558 0.990211301 -0.690211965 -0107216441 -15092044 -0.049644 -7028 3 -0.252595658 0.990211301 -0.690211965 -1512714754 4.71992044 -0.66667444 -0.709 3 -0.252595658 0.99021301 -0.690211965 -512714754 4.79912044 -0.66667444 -0.050 3 942006 1.991997 911165 -512714754 4.79912044 -0.66667444 -0.050 3 94206 0.7911165 -512714754 4.7997539 4.994644 7271 -52266	
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697569 2191997 0272 3424679 12231 182256 95078 0 0110812760 309023105 0002520030 071937 2137844 182012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 143012041 <td></td>	
0 0.1038/7850 0.9902/301301 0.9902/2002101 0.7092/16641 0.5092/7719 1.4091820/241 1.429 9 0.2042/1669 0.9902/301301 0.6902/2002101 0.71937 2.317884 1.9292.66 2.081 9 0.02444/692 0.9902/31301 0.6902/31051 565551 655711 9.9494684 8.8361 10 0.9902/9402 1.971166 566551 6565714 0.9024761 0.666607944 -0.981 10 0.9902/3024 1.9741930 0.7921494300 0.7921494030 0.7921494464 0.8274219444 0.82923 1.9474644 0.827421944 0.82923 1.9494664 0.86607944 -0.9911494 0.9491444 0.82911494 0.9491444 0.82911494 0.9491444 0.82911494 0.9491444 0.82911494 0.9491444 0.82911494 0.9491444 0.82911494 0.9491444 0.9491444 0.82911494 0.9491444 0.9491444 0.82911494 0.9491444 0.84911494 0.949144 0.9491444 0.9491444 0.94914444 0.94914444 0.94914444 0.	95
0 993568 2191997 40029/410216 01917 2317884 902266 2081 9 0.02444029 0.90321301 0.90131056 1.201420232 1.502791301 0.20440291 0.006607944 0.006607944 0.006607944 0.0011 0.001111 0.006607944 0.0011 0.001111 0.006607944 0.0011 0.00111 0.001111 0.006607944 0.0011 0.00111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.001111 0.0011111 0.0011111 0.001111 0.0011111 0.0011111 0.0011111 0.0011111 0.0011111 0.00111111 0.00111111 0.0011111 0.00111111 0.00111111 0.00111111 0.00111111 0.00111111 0.001111111 0.001111111 0.001111111 0.001111111 0.001111111 0.001111111 0.0011111111 0.0011111111 0.0011111111 0.001111111111111111111111111111111111	346024
9 0.0244962919 -0.990231301 -0.693013965 1.820182823 1.5627913931 -0.666607948 -0.5980 2045786 2191907 1971186 568551 651711 9494684 88261 10 20459786 -0.99021301 -0.278641383 0.7092169611 0.42294580 -0.666607948 -0.598 2016485 -2191987 -0.2972 0.07932 -0.991398 -0.9938967 9494664 88771 1.023164475 0.029357671 0.29314/008 0.7092169611 0.42294541 0.46644 84771	
9 20436766 2191687 3971186 565551 651711 944664 894687 10 2068052046 09902131 1278641880 709216641 042942800 0.66660798 1.099 2016495 291967 02972 07937 9933967 944684 81.099 2016495 291967 02972 07937 9933967 944684 81.091	048094
10 0.3698502646 -0.990231301 1.2786419830 0.7092169641 0.4029428800 -0.666667948 -1.099 2016485 2191987 0.2972 0.71937 9939857 9939857 9939857 4.4444 481777 1.4023567581 0.00255072 0.202140080 0.702156641 1.5560119308 -0.666673484 481775	
2016485 2191987 02972 071937 9938967 9494684 481778 1.4922506758 1.0022355077 0.3228140088 0.702160641 1.5360118200 -0.666607048 0.4420	154636
1.4922506758 1.0092255077 0.2928140088 0.7092169641 1.5369118309 -0.666607948 0.4429	81
	293234
942808 64324 0292674 071937 155732 9494684 839542	25
12 -1.184242612 1.0092255077 -0.693013965 -1.512714754 -1.179671787 1.4991820744 -1.3980	022917
12 5286114 64324 3971186 7921294 7088758 892366 567964	44
13 -1.356919598 1.0092255077 -0.693013965 -1.512714754 0.0972941549 1.4991820744 -0.4890	883363
13 8784755 64324 3971186 7921294 1550046 892366 472848 1097994119 1099255077 -0.693013965 -0.401748895 -0.772688102 -0.666607948 -1.770	



	Col1	Col2 (S)	Col3 (S)	Col4 (S)	Col5 (S)	Col6 (S)	Col7 (S)	Col8 (S)
User Header	User Row ID							
1		Regression Statistics						
2		Multiple R	0.6427533978429012					
3		R Square	0.41313193043859486					
4		Adjusted R Square	0.4009845965278801					
5		Standard Error	0.37590758946897873					
6		Observations	1579					
7								
8		Regression	df	SS	MS	F	Significance F	
9		Residual	32	153.78711830	4.8058474471	34.010090895	4.0587245879	
,		Residual	52	863594	44873	26929	37507E-154	
10		Total	1546	218.45987345 83048	2037826			
11			1578	372.24699176				
42			Confficients	69407 Standard Free		Durahua	1 05 00/	U 05. 00/
12			Coefficients	Standard Error 0.0094599758		P-value		Upper 95.0% 0.6379350931
13		Diagnosis	0.6193793540215377	7989092	2937	0.0		447847
14		Age	0.034944578344872954					0.0536897259
				61688421 0.0095891630	26531 0.6158156906	6839E-4 0.5381068188		1667427 0.0247142967
15		Gender	0.005905157055109047	32430095	017851			29375196
16		Ethnicity	-0.0051288114570836344	0.0095904324 85275994	-0.534784167	0.5928760144 825591		0.0136828182 4846133
			0.005504577400505445	0.0095434132	9671693 -0.590111413			4846133 0.0130877244
17		EducationLevel	-0.005631677102695146	79615323	7773302	015052	654056724	48666432
18		вмі	0.006842640052181735	0.0096094414 97752863	0.7120746875			0.0256915559 28536197
19		Smoking	-0.01068028611694388	0.0095538083				0.0080595054
19		-	-0.01000020011094308	76531577	339406	924609		13101352
20		AlcoholConsumptio n	0.002461167657840956	0.0095636829 79952696	0.2573451737	0.7969465694 74437		0.0212203282 18775293
21		PhysicalActivity	-0.009334361700271854	0.0095689073				0.0094350464
		· ·		55141496 0.0095468255	569992 -0.319500971	939527 0.7493898214		70626419 0.0156758747
22		DietQuality	-0.003050220046770803	64645988	93211996	594091	79393405	00392445
23		SleepQuality	-0.021731024730421666	0.0095747622	-2.269615076 6658314	0.0233681600 34877315	-0.040511917 25146546	-0.002950132 2093778704
24		FamilyHistoryParkins	0.0101209008340667	0.0095524701				0.0288580673
24		ons	0.0101203000340007	04518592 0.0095958049	1365	630602 0.1286210332	675929415 -0.004232938	44062814 0.0334113975
25		TraumaticBrainInjury	0.014589229732617963	86224412	150949	7246324	131512603	9674853
26		Hypertension	0.006973590608428447	0.0095620828	1	0.4659309710		0.0257296124
				29304448	0431 2.6731111721	9648995	257612396 0.0068223055	74469293
27		Diabetes	0.02562743849956757	43858281	138525	85412139	58165209	4096993
28		Depression	0.02723933473557805	52271166	7822	54449658	0.0084864123	0.045992257 8496363
29		Stroke	0.012415701060811338	0.0095488124	1.3002350902	0.1937142092		0.031145693
				83364104	211048	2437116	026668686	4829136 0.023974690
30		SystolicBP	0.00528704609413583	8344163	914821	233407	197382648	8565431
31		DiastolicBP	-0.003521415069752083	0.0095773887			1	0.015264629
				41574176 0.0095513189	1546979 0.7599021349	346639 0.4474289458	476941696	37437531 0.025992976
32		CholesterolTotal	0.007258067669105708	59344359	826152	867108	870064977	08276394
33		CholesterolLDL	0.0015268790166764238	0.0095524401 31189343		0.8730265930 744	-0.017210228	
24		Cholostore	5 4117220445020205 4		9561138 0.0565562727		700645668 -0.018227945	33998512 0.019310292
34		CholesterolHDL CholesterolTriateroi	5.411733944502038E-4	01534996	0607868	495937	54625449	35154897
35		CholesterolTriglyceri des	0.002268052516280527	0.0095630160	9762077	0.8125569806	-0.016489799 855084888	0.021025904 87645944
36		UPDRS	0.18630288121195493	0.0096038801			0.1674648738	
		5. 515		88781513	045518	02613E-75	4105188	8285798
37		MoCA	-0.07109273757277541	9932587	884063	346027E-13	-0.089837451 53083589	-0.05234802 61471493
38		FunctionalAssessme	-0.11419317166623748	0.0095658700	-11.93756249	1.7403934101	-0.132956622	-0.09542972
		nt		57560244	866541	474355E-31	17907478 0.1055008546	15340018
39		Tremor	0.12423615764298186	61017858	259872	78414E-37	4295439	4300933
40		Rigidity	0.10336739579051336	0.0095359870	10.839716428	1.9389201436	0.0846625607	0.122072230
				77577548 0.0095507635	891393	52925E-26	3165018 0.0786505923	4937655
41		Bradykinesia	0.09738441151376426	81646275	608197	598043E-23	4773905	7978946
42		PosturalInstability	0.08795422774590572	0.0095343098	9.2250229942	9.0117242673	0.0692526825	
				65763344 0.0095760103	43103 -0.556075698	54057E-20 0.5782395755	3738402	5442742 0.013458354
43		SpeechProblems	-0.0053249866410449145	43971408	5185661	011953	321856172	39766342
44		SleepDisorders	-0.01601764859514722	0.0095591144		1	-0.034767848	0.002732550
				87731708	0398416	4412763	06031181	70017371

The significant features according to the p-value are the following:

• Diagnosis (p-value = 0.0)

- Age (p-value = 2.64129767256839E-4)
- SleepQuality (p-value = 0.023368160034877315)
- Diabetes (p-value = 0.007594197785412139)
- Depression (p-value = 0.004441649154449658)
- UPDRS (p-value = 3.339637353802613E-75)
- MoCA (p-value = 1.6703413366346027E-13)
- FunctionalAssessment (p-value = 1.7403934101474355E-31)
- Tremor (p-value = 8.812477578978414E-37)
- Rigidity (p-value = 1.938920143652925E-26)
- Bradykinesia (p-value = 1.1315824768598043E-23)
- PosturalInstability (p-value = 9.011724267354057E-20)

Step 7: Feature selection: train set

Create a new tab by pressing the "+" button on the bottom of the page with the name "FEATURE_SELECTION_TRAIN_SET".

Import data into the input spreadsheet of the "FEATURE_SELECTION_TRAIN_SET" tab from the output of the "NORMALISE_TRAIN_SET" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".

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IMPORT	TRAIN_TEST_SPUT	NT 32 LANRCH		ston, Breson Ecton, Tran, Ec														
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)	Col9 (D)		Col1	Col2	Col3	Col4	Col5	Col6	Col7	
User Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	вмі	Smoking	AlcoholConsu	PhysicalActivi C	User Header	User Row ID							
1		1.3195736895	-0.990231301	2.2644699572	-0.401748895	-1.086808883		-0.864818001	-1.261657768	1								
		44417	2191987	03018	3424679	1208031	9494684	2792831	95139	2								
2		0.4561887577 950968	-0.990231301 2191987	-0.693013965 3971186	0.7092169641 071937	-1.560542520 0707939	1.4991820744	-0.704669906 6137969	1.1711120459 964801	3								
	-		-0.990231301	-0.693013965						4								
3		2283393	2191987	3971186	7921294	5032697	9494684	027559	409774	5								-
		1.4922506758			-0.401748895		-0.666607948		-1.328126798	6								-
		942808	2191987	3971186	3424679	4317398	9494684	857816206	4204377	7								-
5		0.7152042373 198929	1.0092255077 64324	-0.693013965	-1.512/14/54 7921294	4647563	1.4991820744	-1.404265604 510258	1.385253785: 867963									_
6								1.7271817393		8								_
0		20436786	64324	3971186	7921294	378663	892366	051028	32252336	9								
7		0.8878812236		1.2786419830					-0.841145651	10								
		697569 0.1108347850	2191987	02972 2.2644699572	3424679	152291	892366	9587895 1.3429346024	0.802547973	11								
8		953688	2191987		071937	2317884	892366		319518	12								
9		0.0244962919	-0.990231301		1.8201828235		-0.666607948	-0.598048094		13								-
-		20436786	2191987	3971186	568551	651711	9494684	8826121	178585	14								-
10		0.3698502646 2016485	-0.990231301 2191987		0.7092169641 071937	0.4029428800 9938967	-0.66660/948	-1.099154636 4817781	-0.245518258 97762694									-
	-			0.2928140088						15								_
11		942808	64324		071937	155732	9494684	8395425	450777	16								
12				-0.693013965						17								
		5286114 -1 356919598	64324	3971186 -0.693013965	7921294	7088758	892366	5679644	539214	18								
13		-1.350919598 8784755	64324	3971186	7921294	1550046	892366		9271764	19								
1.4				-0.693013965						20								-
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Manipulate the data by choosing the columns that correspond to the significant features (from the previous step): "Data Transformation" \rightarrow "Data Manipulation" \rightarrow "Select Column(s)".

	Normalizers			_					
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IMPORT	Data Manipulati	on P Remove	Column(s)						
9	Split	Select Co							
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		Sort by C							
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	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)	Col9 (D)
Jser Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	вмі	Smoking	AlcoholConsu mption	PhysicalAct Y
1		1.3195736895		2.2644699572	-0.401748895	-1.086808883	-0.666607948		-1.2616577
		44417	2191987	03018	3424679	1208031	9494684	2792831	95139
2		0.4561887577	-0.990231301	-0.693013965	0.7092169641	-1.560542520	1.4991820744	-0.704669906	1.17111204
		950968	2191987	3971186	071937	0707939	892366	6137969 -0.709871188	964801
3		2283393	2191987	3971186	7921294	5032697	9494684	027559	409774
		1.4922506758			-0.401748895	-1.227815702	-0.666607948	-0.051890553	-1.3281267
		942808	2191987	3971186	3424679	4317398	9494684	857816206	4204377
		0.7152042373	1.0092255077	-0.693013965	-1.512714754	0.4473997539	1.4991820744	-1.404265604	1.38525378
5		198929	64324	3971186	7921294	4647563	892366	510258	867963
6		0.0244962919	1.0092255077	+0.693013965	-1.512714754	1.3205876730	1.4991820744	1.7271817393	
ů.		20436786	64324	3971186	7921294	378663	892366	051028	32252336
7		0.8878812236			-0.401748895		1.4991820744		-0.8411456
		697569	2191987	02972	3424679	152291	892366	9587895	1953941
8		0.1108347850		2.2644699572	0.7092169641	-0.509877719	1.4991820744		
		953688	2191987	03018	071937	2317884	892366	2081	319518
9		0.0244962919 20436786		+0.693013965 3971186	1.8201828235	1.5627913931 651711	-0.666607948 9494684	-0.598048094 8826121	0.98504397
	-	0.3698502646	2191987		0.7092169641		·0.666607948	-1.099154636	-0.2455182
10		2016485	2191987	02972	071937	9938967	9494684	4817781	97762694
			1.0092255077			1.5369118309	-0.666607948	0.4429293234	
11		942808	64324	0292674	071937	155732	9494684	8395425	450777
		-1.184242612	1.0092255077	-0.693013965	-1.512714754	-1.179671787	1.4991820744		1.52517897
12		5286114	64324	3971186	7921294	7088758	892366	5679644	539214
		-1.356919598	1.0092255077	-0.693013965	-1.512714754	0.0972941549			-0.2472604
13		8784755	64324	3971186	7921294	1550046	892366	47284867	9271764
		-1.097904119	1.0092255077	-0.693013965	-0.401748895	-0.772688102	-0.666607948	-1.710145561	-0.3409325

Excluded Columns		Included Columns -
Col3 Gender	>>	Col2 Age
Col4 Ethnicity		Col11 SleepQuality
Col5 EducationLevel	>	Col15 Diabetes
Col6 BMI		Col16 Depression
Col7 Smoking	<	Col24 UPDRS
Col8 AlcoholConsumption		Col25 MoCA
Col9 PhysicalActivity	< <	Col26 FunctionalAssessme
Col10 DietQuality		Col27 Tremor

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		NORMAUSE_T	ST BURS	LECTON (TRAN, SET														
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)	Cc		Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (I
User Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	вмі	Smoking	AlcoholConsu	Ph C	User Header	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	MoCA	Functiona essment
1	-	1.3195736895	-0.990231301	2.2644699572	-0.401748895	-1.086808883	-0.666607948	-0.864818001	-1.			1.3195736895	1.2979847726	-0.422191014	-0.497070226	-1.667823523	1.6596162326	
		44417	2191987	03018	3424679		9494684	2792831	95	1		44417	59347	2594651	279207	881176	67085	2845473
2		0.4561887577	-0.990231301		0.7092169641			-0.704669906		2		0.4561887577			-0.497070226	-1.123368916	-0.291879486	
		950968	2191987	3971186	071937		892366	6137969	96			950968	2195454	2594651	279207	1800788	54866797	9308293
3		-1.529596585		-0.693013965	-1.512714754			-0.709871188		3		-1.529596585			-0.497070226		0.7472598117	
		2283393	2191987	3971186 -0.693013965	7921294		9494684 -0.666607948	027559	40			2283393	6824403	2594651	279207	0645431	888634 -0.754748229	6452395 -0.61153
		942808	2191987	3971186	3424679		9494684	857816206	42	4		942808	599965	2594651	279207	983372	7374792	73633
		0.7152042373			-1.512714754							0.7152042373			-0.497070226		0.2988335043	
5		198929	64324	3971186	7921294	4647563	892366	510258	86	5		198929	2021066	2594651	279207	870105	527822	8850977
6		0.0244962919			-1.512714754					6		0.0244962919	0.5044044309	2.3670960632	-0.497070226	1.4158056692	-0.438678878	-1.294284
6		20436786	64324	3971186	7921294	378663	892366	051028	32.			20436786	6657	120632	279207	43347	411717	8271993
7		0.8878812236	-0.990231301	1.2786419830				-0.484212925		7		0.8878812236			-0.497070226	1.3644269192		
		697569	2191987	02972	3424679		892366	9587895	19.			697569 0.1108347850	9303631	120632	279207 2.0105140781	165555	8855606 1.3173975088	6311483
8		0.1108347850 953688	-0.990231301 2191987	2.2644699572 03018	0.7092169641		1.4991820744 892366	1.3429346024	0.8	8		953688	806688	2594651	7724	303821	67568	2624204
		953688	-0.990231301	-0.693013965	1.8201828235		-0.666607948	-0.598048094				0.0244962919		-0.422191014		-0.099240872	-0.590678706	
9		20436786	2191987	3971186	568551		9494684	8826121	17	9		20436786	0912845	2594651	279207	88618245	2348167	111902
40		0.3698502646			0.7092169641			-1.099154636		10		0.3698502646		-0.422191014	-0.497070226	-0.174388196	0.1059269609	-1.660157
10		2016485	2191987	02972	071937	9938967	9494684	4817781	97	10		2016485	257697	2594651	279207	09777073	5810913	7169023
11			1.0092255077		0.7092169641			0.4429293234		11		1.4922506758				0.7265672781	-0.604868997	-0.318813
		942808	64324	0292674	071937	155732	9494684	8395425	45			942808	8466565	2594651	279207	686168	804423	7414375
12		-1.184242612			-1.512714754							-1.184242612		-0.422191014	-0.497070226 279207		0.5517198202 653937	
	_	5286114 -1.356919598	64324 1.0092255077	3971186	7921294	7088758	892366	5679644	53			5286114	1134566	2594651		036376 1.2432708184		2630568
13		-1.356919598 8784755	1.0092255077	-0.693013965 3971186	7921294	0.0972941549	1.4991820744 892366	-0.489883363 47284867	-0. 92	13		-1.356919598 8784755	0.2752197615	-0.422191014 2594651	-0.497070226 279207	1.2432708184 847427	-0.537763028	-0.708561 3955377
				-0.693013965										-0.422191014				1.5223348
14																		

Step 8: Feature selection: test set

Create a new tab by pressing the "+" button on the bottom of the page with the name "FEATURE_SELECTION_TEST_SET".

Import data into the input spreadsheet of the "FEATURE_SELECTION_TEST_SET" tab from the output of the "NORMALISE_TEST_SET" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".

Edit	Data Transforma	ation Analytic	s Statistics	Plot Help			
L	TRAIN_TEST_SPU	T NORMALISE TR	IN SET <mark>erne</mark> er	ET DI (BERESON			
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		NORMAUSE TE	ST SET	LISTICAL TEST SET			
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Cc
Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	BMI	Sm
		0.0244962919	1.0092255077	-0.693013965	-1.512714754	-1.684027964	-0.
1		20436786	64324	3971186	7921294	7520748	94
		-0.148180694	1.0092255077	544000000070	-0.401748895	1.6949389658	
		-0.148180694 42942722	1.0092255077 64324	641983002972	-0.401748895 3424679	1.6949389658 188734	
-		42942722	64324		3424679 -0.401748895	188734	3 1.4 89.
-		42942722 -1.443258092 0534073	64324 -0.990231301 2191987	-0.693013965 3971186	3424679 -0.401748895 3424679	188734 1.1995685001 397585	8 1.4 89. 1 1.4 89.
3		42942722 -1.443258092 0534073 -1.011565626	64324 -0.990231301 2191987 -0.990231301	-0.693013965 3971186 -0.693013965	3424679 -0.401748895 3424679 1.8201828235	188734 1.1995685001 397585 1.0687344208	3 1.4 89. 1 1.4 89. 3 1.4
3		42942722 -1.443258092 0534073 -1.011565626 1787473	64324 -0.990231301 2191987 -0.990231301 2191987	-0.693013965 3971186 -0.693013965 3971186	3424679 -0.401748895 3424679 1.8201828235 568551	188734 1.1995685001 397585 1.0687344208 821103	3 1.4 89. 1 1.4 89. 3 1.4 89.
3		42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077	-0.693013965 3971186 -0.693013965 3971186 -0.693013965	3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754	188734 1.1995685001 397585 1.0687344208 821103 -1.173600369	8 1.4 89. 1 1.4 89. 3 1.4 89. 8 1.4 89.
3 4 5		42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324	-0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186	3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294	188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495	3 1.4 89. 1 1.4 89. 3 1.4 89. 3 1.4 89. 4 -0. 94
3		42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077	-0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088	3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235	188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964	3 1.4 89, 1 1.4 89, 3 1.4 89, 4 -0, 94 4 -0,
3 4 5 6		42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077 64324	-0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674	3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551	188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249	3 1.4 89. 1 1.4 89. 3 1.4 89. 3 1.4 89. 94 94 4 -0. 94
3 4 5 6		42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077 64324	-0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088	3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551	188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249	3 1.4 89. 1 1.4 89. 3 1.4 89. 3 1.4 89. 94 94 4 -0. 94
3 4 5 6 7		42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987	-0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088	3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551 -1.512714754 7921294	188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092	3 1.4 89. 1 1.4 89. 3 1.4 89. 3 1.4 89. 94 94 4 -0. 94 94 5 -0. 94
3 4 5 6 7		42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987	-0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674	3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551 -1.512714754 7921294	188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092	3 1.4 89. 1 1.4 89. 3 1.4 89. 3 1.4 89. 94 94 4 -0. 94 94 5 -0. 94
3 4 5 6 7 8		42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522 0.1971732782	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 -0.990231301 2191987 1.0092255077 64324 1.0092255077 64324 1.0092255077	-0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674 0.2928140088 0292674 -0.693013965	3424679 -0.401748895 3424679 -1.8201828235 568551 -1.512714754 7921294 -1.512714754 7921294 -0.401748895 -0.401748895 -0.401748895	188734 1.1995685001 397585 1.0687344208 421103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092 -1.212779235 4691833 0.3507163259	3 1.4 89. 1 1.4 89. 3 1.4 89. 3 1.4 89. 94 94 4 -0. 94 5 -0. 94 5 -0. 94 5 -0. 94 94 1.4
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3 4 5 6 7 8 9		42942722 -1.443258092 0534073 -1.011565626 1787473 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522 0.1971732782 7030082 -0.838888639 8288833	64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 -0.990231301 -0.990231301	-0.693013965 3971186 -0.693013965 3971186 0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674 0.2928140088 0292674 -0.693013965 3971186	3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551 -1.512714754 7921294 -0.401748895 3424679 -0.401748895 3424679	188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092 -1.212779235 4691833 0.3507163259 9661695 0.6432185089	3 1.4 89. 1 1.4 89. 3 1.4 89. 3 1.4 89. 94. 4 -0. 94. 4 -0. 94. 5 -0. 94. 5 -0. 94. 94. 94. 94. 94. 94. 94. 94

Manipulate the data by choosing the columns that correspond to the significant features (from step 7): "Data Transformation" \rightarrow "Data Manipulation" \rightarrow "Select Column(s)".

	Normalizers							
IMPORT	Data Manipulati		Column(s)					
	Split		olumn(s)					
	Variable Selectio							
		matrix						
		Sort by (
		Fill Missi	ng Column(s) V	alues				
		NORMAUSE_TO	ST_SET	ELEV E. H				
		-	_					
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)
		Col2 (D)	C613 (D)	Co:4 (U)	EducationLeve		Col7 (D)	AlcoholCons
Jser Header	User Row ID	Age	Gender	Ethnicity		BMI	Smoking	mption
1			1.0092255077	-0.693013965	-1.512714754		-0.666607948	-1.36405401
		20436786	64324	3971186	7921294	7520748	9494684	9557914
		-0.148180694	1.0092255077		-0.401748895	1.6949389658	1.4991820744	
	-	42942722	64324 -0.990231301	02972	3424679 +0.401748895	188734	892366 1,4991820744	230514
3		0534073	2191987	3971186	3424679	397585	892366	3000567
7.45		-1.011565626	-0.990231301	-0.693013965	1.8201828235		1,4991820744	
4		1787473	2191987	3971186	568551	821103	892366	701283
5		-1.615935078	1.0092255077	-0.693013965	-1.512714754	-1.173600369	-0.666607948	-1.48772622
		4032713	64324	3971186	7921294	2738495	9494684	0345291
6		-0.579873160				0.7270201964	-0.666607948	-1.56392939
		3040873	64324	0292674	568551	307249	9494684	6295688 -0.97539408
7		5286114	2191987	0.2928140088	7921294	1520092	-0.000007948	3638559
		-0.061842201			-0.401748895	-1,212779235	-0.666607948	-1.65991030
		25449522	64324	0292674	3424679	4691833	9494684	7933737
8		0.1971732782	1.0092255077	-0.693013965	-0.401748895	0.3507163259	1.4991820744	-0.81073302
8		7030082	64324	3971186	3424679	9661695	892366	9974072
			-0.990231301			0.6432185089	-0.666607948	-0.31908532
8		-0.838888639		3971186	7921294	479507	9494684	33660005
8		8288833	2191987					
8		8288833	2191987 1.0092255077 64324		-0.401748895 3424679	0.4709297325	-0.666607948 9494684	1.192389594 980105

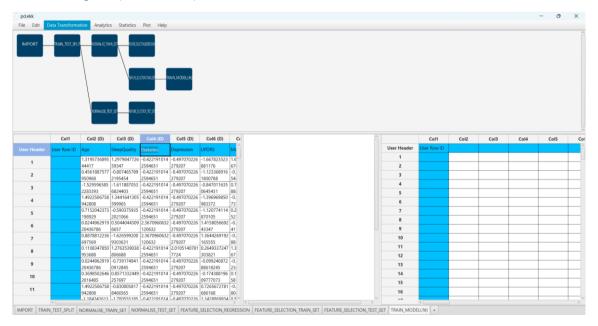
Excluded Columns	Included Columns —	٦
сопт заоке л	Col24 UPDRS	
Col18 SystolicBP	>> Col25 MoCA	
Col19 DiastolicBP	Col26 FunctionalAssessme	
Col20 CholesterolTotal	> Col27 Tremor	
Col21 CholesterolLDL	Col28 Rigidity	
Col22 CholesteroIHDL	< Col29 Bradykinesia	
Col23 CholesterolTriglyce	Col30 PosturalInstability	
Col31 SpeechProblems	<	

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MPORT	TRAIN_TEST_SPU	T NORVALSE, TRA	9412.2	2104 888504 2204 984 22														
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)		Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)	
er Header	User Row ID	Age	Gender	Ethnicity	EducationLeve	BMI	Smoking	AlcoholConst	User Header	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	MoCA	FunctionalAss essment	s
		0.0244962919	1.0092255077	-0.693013965			-0.666607948	-1.364054017	1			1.6678701021					-0.975018839	9
1		20426796	64224	2071106	7021204													
2			64324 1.0092255077		7921294 -0.401748895		9494684 1.4991820744		2			024709 0.4138434815						4
2		-0.148180694 42942722 -1.443258092	1.0092255077 64324 -0.990231301	1.2786419830 02972 -0.693013965	-0.401748895 3424679 -0.401748895	1.6949389658 188734 1.1995685001	1.4991820744 892366 1.4991820744	0.613787476= 230514 -0.846586687			-0.148180694 42942722 -1.443258092	0.4138434815 892542 -0.826176450	-0.422191014 2594651 -0.422191014	-0.497070226 279207 -0.497070226	0.0168980482 04466266 1.2541237802	1.4498907373 182524 -1.066452328	0.6191738544 821063 -0.132481204	
2 3		-0.148180694 42942722 -1.443258092 0534073	1.0092255077 64324	1.2786419830 02972	-0.401748895 3424679 -0.401748895 3424679	1.6949389658 188734	1.4991820744 892366 1.4991820744 892366	0.613787476= 230514	2		-0.148180694 42942722	0.4138434815 892542 -0.826176450 97769	-0.422191014 2594651 -0.422191014 2594651	-0.497070226 279207 -0.497070226 279207	0.0168980482 04466266	1.4498907373 182524 -1.066452328 377751	0.6191738544 821063 -0.132481204 52940432	4
2		-0.148180694 42942722 -1.443258092 0534073 -1.011565626	1.0092255077 64324 -0.990231301 2191987	1.2786419830 02972 -0.693013965 3971186	-0.401748895 3424679 -0.401748895 3424679	1.6949389658 188734 1.1995685001 397585	1.4991820744 892366 1.4991820744 892366	0.613787476 230514 -0.846586687 3000567	2		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507	0.6191738544 821063 -0.132481204 52940432 0.5896403296 288322	4
2 3 4		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 -0.693013965	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369	1.4991820744 892366 1.4991820744 892366 1.4991820744 892366 -0.666607948	0.613787476- 230514 -0.846586687 3000567 0.284873127 701283 -1.487726220	2		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 1.1283220596	0.6191738544 821063 -0.132481204 52940432 0.5896403296 288322 1.6221154565	4
2 3		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495	1.4991820744 892366 1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684	0.613787476- 230514 -0.846586687 3000567 0.284873127 701283 -1.487726220 0345291	2 3 4		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 333847	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 1.1283220596 70138	0.6191738544 821063 -0.132481204 52940432 0.5896403296 288322 1.6221154565 49856	4
2 3 4		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964	1.4991820744 892366 1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948	0.613787476- 230514 -0.846586687 3000567 0.284873127 701283 -1.487726220 0345291 -1.56392939E	2 3 4		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 333847 0.1042828706	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.271730666	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 1.1283220596 70138 -0.216368704	0.6191738544 821063 -0.132481204 52940432 0.5896403296 288322 1.6221154567 49856 -0.067513722	4
2 3 4 5		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077 64324	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249	1.4991820744 892366 1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948 9494684	0.613787476- 230514 -0.846586687 3000567 0.284873127 701283 -1.487726220 0345291 -1.563929398 6295688	2 3 4 5		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 333847 0.1042828706 6377791	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.271730666 0348793	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 1.1283220596 70138 -0.216368704 19530882	0.619173854/ 821063 -0.132481204 52940432 0.5896403296 288322 1.6221154567 49856 -0.067513722 03088762	4
2 3 4 5		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 -0.9902255077 64324 -0.990231301	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 1.8201828235 568551 -1.512714754	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216	1.4991820744 892366 1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948	0.613787476- 230514 -0.846586687 3000567 0.284873127- 701283 -1.487726220 0345291 -1.563929396 6295688 -0.975394080	2 3 4 5		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 333847 0.1042828706 6377791 -0.054158872	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.271730666 0348793 -1.342815329	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 1.1283220596 70138 -0.216368704 19530882 1.1715897323	0.6191738544 821063 -0.132481204 52940432 0.5896403296 288322 1.6221154565 49856 -0.067513722 03088762 1.3762544955	4
2 3 4 5 6 7		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077 64324 -0.990231301 2191987	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551 -1.512714754 7921294	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092	1.4991820744 892366 1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948 9494684 9494684	0.613787476- 230514 -0.846586687 3000567 0.284873127 701283 -1.487726220 0345291 -1.563929398 6295688 -0.975394080 3638559	2 3 4 5 6 7		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 333847 0.1042828706 6377791 -0.054158872 71660186	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.27173066 0348793 -1.342815329 8501642	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 1.1283220596 70138 -0.216368704 1953082 1.1715897323 167745	0.6191738544 821063 -0.132481204 52940432 0.5896403296 288322 1.6221154567 49856 -0.067513722 03088762 1.3762544957 907616	4
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2 3 4 5 6 7 8		-0.148180694 42942722 -1.443258092 0534073 -1.011555626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 -0.990231301 2191987 1.0092255077 64324	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551 -1.512714754 7921294 -0.401748895 3424679	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092 -1.212779235 4691833	1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948 9494684 -0.666607948 9494684 -0.666607948 9494684 -0.666607948	0.613787476- 230514 -0.846586687 3000567 0.284873127 701283 -1.487726220 0345291 -1.563929396 6295688 -0.975394080 3638559 -1.659910302 7933737	2 3 4 5 6 7 8		-0.148180694 42942722 0534073 -1.011565626 1787473 -1.011565626 1787473 -1.015935078 4032713 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 333847 0.1042828706 6377791 -0.054158872 71660186 -1.412454916	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632 -0.422191014 2594651	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.271730666 0348793 -1.342815329 8501642 -1.464229858 2851163	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 1.1283220596 70138 -0.216368704 19530882 1.1715897323 167745 0.4077082678 472904	0.619173854/ 821063 -0.132481204 52940432 0.5896403296 288322 1.6221154567 49856 -0.667513722 03088762 1.3762544957 907616 1.4569887014 16042	4
2 3 4 5 6 7		-0.148180694 42942722 -1.443258092 0534073 -1.011555626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 -0.990231301 2191987 1.0092255077 64324	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674 0.2928140088 0292674	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551 -1.512714754 7921294 -0.401748895 3424679	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092 -1.212779235 4691833	1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948 9494684 -0.666607948 9494684 -0.666607948 9494684 -0.666607948	0.613787476- 230514 -0.846586687 3000567 0.284873127 701283 -1.487726220 0345291 -1.563929396 6295688 -0.975394080 3638559 -1.659910302 7933737	2 3 4 5 6 7		-0.148180694 42942722 0534073 -1.011565626 1787473 -1.011565626 1787473 -1.015935078 4032713 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 33847 0.1042828706 6377791 -0.054158872 71660186 -1.412454916 1836897	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632 -0.422191014 2594651	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.271730666 0348793 -1.342815329 8501642 -1.464229858 2851163	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 1.1283220596 70138 -0.216368704 19530882 1.1715897323 167745 0.4077082678 472904	0.619173854/ 821063 -0.132481204 52940432 0.5896403296 288322 1.6221154567 49856 -0.667513722 03088762 1.3762544957 907616 1.4569887014 16042	4
2 3 4 5 6 7 7 8 9		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522 0.1971732782	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077 64324 1.0092255077 64324 1.0092255077 64324	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674 0.2928140088 0292674 0.2928140088 0292674 -0.693013965 3971186	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551 -1.512714754 7921294 -0.401748895 3424679 -0.401748895	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092 -1.212779235 4691833 0.3507163259	1.4991820744 892366 1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948 9494684 -0.666607948 9494684 1.4991820744 892366	0.6137874764 230514 0.846586667 3000567 0.284873127 701283 -1.487726220 0345291 -1.563929398 6295688 -0.975394080 3638559 -1.659910302 7933737	2 3 4 5 6 7 8 9		-0.148180694 42942722 0534073 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522 0.1971732782 7030082 -0.838888639	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 333847 0.1042828706 6377791 -0.054158872 71660186 -1.412454916 1836897 1.6030415128 820563 0.96533886831	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	-0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.271730666 0348793 -1.342815329 8501642 -1.464229858 2851163 0.1068956410 3486997 -0.828815656	1.4498907373 182524 -1.066452328 377751 1.2786323288 492507 70138 -0.216368704 19530882 1.1715897323 167745 0.4077082678 472904 -0.658244038 9160835	0.619173854/ 821063 -0.132481204 52940432 0.589640329/ 288322 -0.067513722 03088762 1.3762544957 907616 1.4569837014 16042 -0.432210554 98672206 -1.585246390	4
2 3 4 5 6 7 8		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522 0.1971732782 7030082	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077 64324 1.0092255077 64324 1.0092255077 64324	1.2786419830 02972 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674 0.2928140088 0292674 0.2928140088 0292674 -0.693013965 3971186	-0.401748895 3424679 -0.401748895 3424679 1.8201828235 568551 -1.512714754 7921294 1.8201828235 568551 -1.512714754 7921294 -0.401748895 3424679 -0.401748895	1.6949389658 188734 1.1995685001 397585 1.0687344208 821103 -1.173600369 2738495 0.7270201964 307249 -1.578840216 1520092 -1.212779235 4691833 0.3507163259 9661695	1.4991820744 892366 1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948 9494684 -0.666607948 9494684 1.4991820744 892366	0.613787476- 230514 -0.846586687 3000567 0.284873127 701283 -1.487726220 0345291 -1.563929386 6-0.975394080 -0.975394080 -0.975394080 7933737 -0.810733021 9974072	2 3 4 5 6 7 8		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040073 -1.18424612 5286114 -0.061842201 25449522 0.1971732782 7030082 -0.83888639 8288833	0.4138434815 892542 0.826176450 97769 1.598488511 7459724 1.6814919763 333847 0.1042828706 6377791 -0.054158872 71660186 -1.412454916 1836897 1.6030415128 820563 0.9653886831 673045	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	0.497070226 279207 0.497070226 279207 0.497070226 279207 0.497070226 279207 0.497070226 279207 0.497070226 279207 0.497070226 279207 2.0497070226 279207 2.0105140781 7724	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.271730666 0348793 -1.342815329 8501642 -1.464229858 2851163 0.10689856410 3486997 -0.828815656 0031603	1.4499907373 182524 -1.066452328 377751 1.2786323288 492507 -0.216368704 19530882 1.1715897323 1.67745 0.4077082678 472904 -0.582244038 9160835 -0.132580761 50572193	0.619173854/ 821063 -0.132481204 52940432 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 2	4
2 3 4 5 6 7 7 8 9		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040873 -1.184242612 5286114 -0.061842201 25449522 0.1971732782 7030082 -0.838888639	1.0092255077 64324 -0.990231301 2191987 -0.990231301 2191987 1.0092255077 64324 1.0092255077 64324 1.0092255077 64324 1.0092255077 64324 -0.990231301 2191987	1.2786419830 02972 0.693013965 3971186 -0.693013965 3971186 -0.693013965 3971186 0.2928140088 0292674 0.2928140088 0292674 0.2928140088 0292674 -0.693013965 3971186	-0.401748895 3424679 -0.401748895 3424679 -1.8201828235 568551 -1.512714754 7921294 -0.401748895 3424679 -0.401748895 3424679 -0.401748895	1.6949389658 188734 1.1995685001 397585 1.0667344208 821103 -1.773600369 2738495 0.7270201964 307249 -1.578840216 1520092 -1.212779235 4691833 0.3507163259 9661695 0.6432185089	1.4991820744 892366 1.4991820744 892366 -0.666607948 9494684 -0.666607948 9494684 -0.666607948 9494684 -0.666607948 9494684 1.4991820744 892366 -0.666607948	0.6137874764 230514 - 0.846586687 3000567 0.284873127 701283 - 1.48772622C 0345291 - 1.563929396 6295688 - 0.975394080 3638559 - 1.659910302 7933737 - 0.810733021 9974072 - 0.319085325	2 3 4 5 6 7 8 9		-0.148180694 42942722 -1.443258092 0534073 -1.011565626 1787473 -1.615935078 4032713 -0.579873160 3040073 -1.18424612 5286114 -0.061842201 25449522 0.1971732782 7030082 -0.83888639 8288833	0.4138434815 892542 -0.826176450 97769 -1.598488511 7459724 1.6814919763 333847 0.1042828706 6377791 -0.054158872 71660186 -1.412454916 1836897 1.6030415128 820563 0.96533886831	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	0.497070226 279207 0.497070226 279207 0.497070226 279207 0.497070226 279207 0.497070226 279207 0.497070226 279207 0.497070226 279207 2.0497070226 279207 2.0105140781 7724	0.0168980482 04466266 1.2541237802 254408 1.1495759649 955632 -0.322492833 32095213 -1.271730666 0348793 -1.342815329 8501642 -1.464229858 2851163 0.10689856410 3486997 -0.828815656 0031603	1.4499907373 182524 -1.066452328 377751 1.2786323288 492507 -0.216368704 19530882 1.1715897323 1.67745 0.4077082678 472904 -0.582244038 9160835 -0.132580761 50572193	0.619173854/ 821063 -0.132481204 52940432 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 288322 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 28832 2	4 16 7 7 4 4

Step 9: Train the model

Create a new tab by pressing the "+" button on the bottom of the page with the name "TRAIN_MODEL(.fit)".

Import data into the input spreadsheet of the "TRAIN_MODEL(.fit)" tab from the output of the "FEATURE_SELECTION_TRAIN_SET" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".



Use the J48 Method to train and fit the model by browsing: "Analytics" \rightarrow "Classification" \rightarrow "J48" and set the "Minimum Sample Split" as 3, the "Max Depth" as 6 and the "Target Column" as the column corresponding to "Diagnosis".

MPORT	TRAIN_TEST_SPLI		ation	 Multiple Radial E 		ron (MLP)	
		NORMALISE_TE	ST. SET BANK S	ERO/BLE			
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Cc
r Header	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	M
1				-0.422191014		-1.667823523	
		44417 0.4561887577	59347 -0.807465789	2594651 -0.422191014	279207	881176	671
2		950968	2195454	2594651	279207	1800788	54:
		-1 529596585	-1611887053				
3		-1.529596585	-1.611887053	-0.422191014	-0.497070226	-0.847011635	
		2283393	6824403	2594651	279207	0645431	88
3 4		2283393		2594651			88
4		2283393 1.4922506758	6824403 1.3441641305 599965	2594651 -0.422191014 2594651	279207 -0.497070226	0645431 -1.396969850	88: -0. 73
		2283393 1.4922506758 942808	6824403 1.3441641305 599965	2594651 -0.422191014 2594651	279207 -0.497070226 279207	0645431 -1.396969850 983372 -1.120774114 870105	88 -0. 73 0.2 52
4		2283393 1.4922506758 942808 0.7152042373	6824403 1.3441641305 599965 -0.590375935	2594651 -0.422191014 2594651 -0.422191014 2594651	279207 -0.497070226 279207 -0.497070226	0645431 -1.396969850 983372 -1.120774114	88 -0. 73 0.2 52
4		2283393 1.4922506758 942808 0.7152042373 198929	6824403 1.3441641305 599965 -0.590375935 2021066 0.5044044309 6657	2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632	279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0645431 -1.396969850 983372 -1.120774114 870105 1.4158056692 43347	88 -0. 73 0.2 52 -0. 41
4 5 6		2283393 1.4922506758 942808 0.7152042373 198929 0.0244962919	6824403 1.3441641305 599965 -0.590375935 2021066 0.5044044309 6657	2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632	279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0645431 -1.396969850 983372 -1.120774114 870105 1.4158056692	88 -0. 73 0.2 52 -0. 41
4		2283393 1.4922506758 942808 0.7152042373 198929 0.0244962919 20436786 0.8878812236 697569	6824403 1.3441641305 599965 -0.590375935 2021066 0.5044044309 6657 -1.626599200 9303631	2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632 2.3670960632 120632	279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0645431 -1.396969850 983372 -1.120774114 870105 1.4158056692 43347 1.3644269192 165555	88 -0. 73 0.2 52 -0. 41 -0. 88
4 5 6 7		2283393 1.4922506758 942808 0.7152042373 198929 0.0244962919 20436786 0.8878812236	6824403 1.3441641305 599965 -0.590375935 2021066 0.5044044309 6657 -1.626599200 9303631	2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632 2.3670960632 120632	279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	0645431 -1.396969850 983372 -1.120774114 870105 1.4158056692 43347 1.3644269192	88 -0. 73 0.2 52 -0. 41 -0. 88
4 5 6		2283393 1.4922506758 942808 0.7152042373 198929 0.0244962919 20436786 0.8878812236 697569	6824403 1.3441641305 599965 -0.590375935 2021066 0.5044044309 6657 -1.626599200 9303631	2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632 2.3670960632 120632	279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	0645431 -1.396969850 983372 -1.120774114 870105 1.4158056692 43347 1.3644269192 165555	88 -0. 73 0.2 52 -0. 41 -0. 88
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	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	MoCA	FunctionalAss essment	Trer	User Header	User Row ID	Diagnosis	Prediction					
1		1.3195736895	1.2979847726	-0.422191014	-0.497070226	-1.667823523	1.6596162326		1.13	1		0.0	0.0					
1		44417	59347	2594651	279207	881176	67085	2845473	810	2		1.0	1.0					
2		0.4561887577 950968	-0.807465789 2195454	-0.422191014	-0.497070226 279207	-1.123368916 1800788	-0.291879486 54866797	-0.072702906 93082937	-0.8	3		1.0	1.0					
			-1.611887053		-0.497070226					4		0.0	1.0					-
3		2283393	6824403	2594651	279207	0645431	888634	6452395	810	5		0.0	0.0					+
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		942808	599965	2594651	279207	983372	7374792	73633	787									+
5		0./1520423/3 198929	-0.590375935	-0.422191014	-0.497070226 279207	-1.120//4114 870105	0.2988335043	-1.52/894232 8850977	1.13	7		1.0	1.0					
					-0.497070226					8		0.0	0.0					
6		20436786	6657	120632	279207	43347	411717	8271993	810	9		1.0	1.0					
7					-0.497070226					10		1.0	1.0					-
		697569	9303631	120632	279207	165555	8855606	6311483	787	11		1.0	1.0					+
8		0.1108347850 953688	806688	2594651	7724	303821	67568	2624204	-0.8	12	-	1.0						+
					-0.497070226								1.0					
9			0912845	2594651	279207	88618245	2348167	111902	787	13		1.0	1.0					
					-0.497070226					14		1.0	1.0					
10		2016485	257697	2594651	279207	09777073	5810913	7169023	810	15		0.0	1.0					
10				-0.422191014	-0.497070226			-0.318813315 7414375	1.13	16		1.0	1.0					-
10 11				2504651	270207													
		942808	8466565 -1.700555185	2594651 -0.422191014	279207	686168 1.1428869934	804423 0.5517198202			17		1.0	1.0					+

Step 10: Validate the model

Create a new tab by pressing the "+" button on the bottom of the page with the name "VALIDATE_MODEL(.predict)".

Import data into the input spreadsheet of the "VALIDATE_MODEL(.predict)" tab from the output of the "FEATURE_SELECTION_TEST_SET" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".

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er Header	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	MoCA	Functional		User Header	User Row ID				
		0.0244962919	1.6678701021	2.3670960632	-0.497070226	-0.584500796	1.7460788537	essment -0.9750188		1					
1		20436786	024709	120632	279207	7010027	283174	7875124		2					
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3		-1.443258092				1.2541237802 254408									-
		0534073	97769 -1.598488511	2594651	279207		377751	52940432		5					
4		1787473	7459724	2594651	279207	955632	492507	288322		6					
		-1.615935078	1.6814919763			-0.322492833				7					1
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6		-0.579873160	0.1042828706	-0.422191014	-0.497070226	-1.271730666	-0.216368704	-0.0675137							-
0		3040873	6377791	2594651	279207	0348793	19530882	03088762		9					
7		-1.184242612			-0.497070226					10					
		5286114	71660186	120632	279207	8501642	167745	907616		11					
'		-0.061842201		2594651	-0.497070226 279207	-1.464229858 2851163	0.4077082678 472904	16042		12					-
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		0.1971732782	1.6030415128		-0.497070226	0.1068956410 3486997				13					
8		0.1971732782 7030082	1.6030415128 820563	-0.422191014 2594651	-0.497070226 279207		9160835	-0.4322105 98672206 -1.5852463		13 14					
8		0.1971732782 7030082 -0.838888639 8288833	1.6030415128 820563 0.9653886831 673045	-0.422191014 2594651 -0.422191014 2594651	-0.497070226 279207 2.0105140781 7724	3486997 -0.828815656 0031603	9160835 -0.132580761 50572193	98672206 -1.5852463 3378413							
8 9 10		0.1971732782 7030082 -0.8388888639 8288833 0.2835117714	1.6030415128 820563 0.9653886831 673045 -1.080226248	-0.422191014 2594651 -0.422191014 2594651 -0.422191014	+0.497070226 279207 2.0105140781 7724 +0.497070226	3486997 -0.828815656 0031603 -0.198149496	9160835 -0.132580761 50572193 -0.291938509	98672206 -1.5852463 3378413 0.99570610		14 15					
8		0.1971732782 7030082 -0.838888639 8288833	1.6030415128 820563 0.9653886831 673045 -1.080226248 1200657	-0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651	+0.497070226 279207 2.0105140781 7724 +0.497070226 279207	3486997 -0.828815656 0031603 -0.198149496	9160835 -0.132580761 50572193 -0.291938509 83561115	98672206 -1.5852463 3378413 0.9957061(092843		14					

To validate the model browse: "Analytics" \rightarrow "Existing Model Utilization". Then choose Model "(from Tab:) TRAIN_MODEL (.fit)".

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	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)
lser Header	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	MoCA	Functional essment
1		0.0244962919 20436786	024709	2.3670960632 120632	-0.497070226 279207	-0.584500796 7010027	1.7460788537 283174	-0.9750188 7875124
2		-0.148180694 42942722	0.4138434815 892542	-0.422191014 2594651	-0.497070226 279207	0.0168980482 04466266	1.4498907373 182524	0.6191738 821063
3		-1.443258092 0534073	-0.826176450 97769	-0.422191014 2594651	-0.497070226 279207	1.2541237802 254408	-1.066452328 377751	-0.1324812 52940432
4		-1.011565626 1787473	-1.598488511 7459724	-0.422191014 2594651	-0.497070226 279207	1.1495759649 955632	1.2786323288 492507	0.58964033 288322
		-1.615935078 4032713	1.6814919763 333847	910142594651	-0.497070226 279207	-0.322492833 32095213	1.1283220596 70138	1.6221154 49856
6		-0.579873160 3040873	0.1042828706 6377791	-0.422191014 2594651	-0.497070226 279207	-1.271730666 0348793	-0.216368704 19530882	-0.0675137 03088762
		-1.184242612 5286114	-0.054158872 71660186	2.3670960632 120632	-0.497070226 279207	-1.342815329 8501642	1.1715897323 167745	1.37625449 907616
7		-0.061842201 25449522	-1.412454916 1836897	-0.422191014 2594651	-0.497070226 279207	-1.464229858 2851163	0.4077082678 472904	1.4569837(16042
7		0.1971732782	1.6030415128 820563	-0.422191014 2594651	-0.497070226 279207	0.1068956410 3486997	-0.658244038 9160835	-0.4322105 98672206
			0.9653886831	-0.422191014	2.0105140781	-0.828815656 0031603	-0.132580761 50572193	-1.5852463 3378413
8		-0.838888639 8288833	673045	2594651	7724			
8 9		-0.838888639 8288833		2594651 -0.422191014 2594651	-0.497070226 279207	-0.198149496 23637082	-0.291938509 83561115	

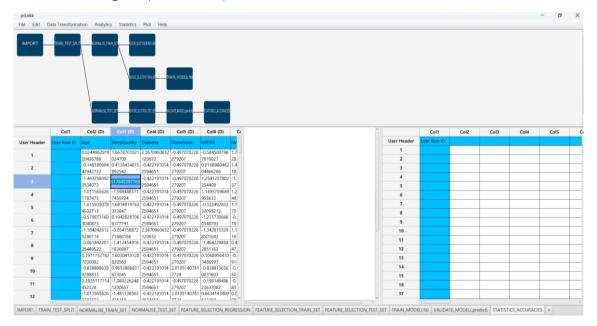
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User Header	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	MoCA	Functional/	User Header	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	MoCA	FunctionalAss essment	s Trer
1				2.3670960632			1.7460788537	-0.9750188	1			1.6678701021			-0.584500796	1.7460788537	-0.975018839	
2		20436786 -0.148180694	024709 0.4138434815	120632 -0.422191014	279207 -0.497070226	7010027 0.0168980482	283174 1.4498907373	7875124 0.6191738	2		20436786 -0.148180694	024709 0.4138434815	120632 -0.422191014	279207	7010027 0.0168980482	283174 1.4498907373	7875124 0.619173854	810
2	-	42942722	892542	2594651	279207	04466266	182524	821063	2		42942722	892542	2594651	279207	04466266	182524	821063	787
3		-1.443258092 0534073	-0.826176450 97769	2594651	279207	254408	377751	-0.1324812 52940432	3		-1.443258092 0534073	-0.826176450	-0.422191014 2594651	279207	1.2541237802 254408	-1.066452328 377751	-0.132481204 52940432	4 1.13
4		-1.011565626	-1.598488511	-0.422191014	-0.497070226	1.1495759649	1.2786323288	0.5896403	4		-1.011565626	-1.598488511	-0.422191014	-0.497070226	1.1495759649	1.2786323288	0.589640329	6 1.13
•		1787473	7459724		279207	955632	492507	288322			1787473	7459724	2594651	279207	955632	492507 1.1283220596	288322	810
		-1.615935078 4032713	1.6814919763 333847	-0.422191014 2594651	-0.497070226	-0.322492833 32095213	1.1283220596 70138	49856	5		-1.615935078 4032713	1.6814919763 333847	2594651	279207	-0.322492833 32095213	1.1283220596	49856	8109
6				-0.422191014		-1.271730666	-0.216368704		6			0.1042828706			-1.271730666	-0.216368704	-0.067513722	
6		3040873	6377791		279207	0348793	19530882	03088762	0		3040873	6377791	2594651	279207	0348793	19530882	03088762	787
7		-1.184242612	-0.054158872	2.3670960632			1.1715897323		7		-1.184242612 5286114	-0.054158872 71660186	2.3670960632 120632	-0.497070226 279207	-1.342815329 8501642	1.1715897323	1.376254495	7 1.13
		5286114 -0.061842201	71660186	120632 -0.422191014	279207	8501642 -1.464229858	167745 0.4077082678	907616			-0.061842201		-0.422191014			0.4077082678		
8		25449522	1836897	2594651	279207	2851163	472904	16042	8		25449522	1836897	2594651	279207	2851163	472904	16042	787
9		0.1971732782		-0.422191014		0.1068956410		-0.4322105	9		0.1971732782	1.6030415128			0.1068956410	-0.658244038	-0.432210554	
		7030082	820563	2594651	279207	3486997	9160835	98672206			7030082 -0.838888639	820563 0.9653886831	2594651 -0.422191014	279207	3486997 +0.828815656	9160835 -0.132580761	98672206	810 0 -0.8
10		-0.838888639 8288833	0.9653886831 673045	-0.422191014 2594651	2.0105140781	-0.828815656 0031603	-0.132580761 50572193	-1.5852463 3378413	10		8288833	673045	2594651	7724	0031603	50572193	3378413	7877
			-1.080226248			-0.198149496	-0.291938509	0.99570610	11			-1.080226248					0.995706109	
11		452328	1200657		279207	23637082	83561115	092843			452328	1200657	2594651	279207	23637082	83561115	092843	8109
		-1.011565626	-1.481138563	-0.422191014	2.0105140781	0.6634143809	0.0503479774	-0.9799634	12		-1.011565626			2.0105140781	0.6634143809	0.0503479774	-0.979963481	1 1.133
12		1707470	405150	1004001	7734	610060	0007000	300012000			1707470	425150	2504651	7734	\$10050	0007002	0212095	0100

Step 11: Statistics calculation

Create a new tab by pressing the "+" button on the bottom of the page with the name "STATISTICS_ACCURACIES".

Import data into the input spreadsheet of the "STATISTICS_ACCURACIES" tab from the output of the "VALIDATE_MODEL(.predict)" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".



Calculate the statistical metrics for the classification by browsing: "Statistics" \rightarrow "Model Metrics" \rightarrow "Classification Metrics".

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lser Header	User Row ID	Age	SleepQua	lity D	Diabetes	Depression	UPDRS	Mc
1		0.0244962919	1.6678701	1021 2	.3670960632	-0.4970702	6 -0.584500796	1.7
		20436786	024709		20632	279207	7010027	28
2		-0.148180694				-0.4970702		1.4
-		42942722	892542		594651	279207	04466266	18.
		-1.443258092	61764509		0.422191014			-1.
		0534073		2	594651	279207	254408	37
4		-1.011565626			0.422191014		1.1495759649	
		1787473	7459724		594651 0.422191014	279207	955632	49.
5		-1.615935078 4032713	1.6814919		0.422191014	279207	32095213	1.1
		-0.579873160						-0.
6		3040873	6377791		594651	279207	0348793	19
-		-1.184242612			.3670960632			1.1
7		5286114	71660186	1	20632	279207	8501642	16
8		-0.061842201	-1.412454	916 -	0.422191014	-0.4970702	6 -1.464229858	0.4
•		25449522	1836897	2	594651	279207	2851163	47.
9		0.1971732782	1.6030415	5128 -4	0.422191014	-0.4970702	0.1068956410	-0.
,		7030082	820563		594651	279207	3486997	91
10							81 -0.828815656	-0.
		8288833	673045		594651	7724	0031603	50
		0.2835117714			0.422191014			-0.
11			1200657	2	594651	279207	23637082	83
11		452328						
11 12		452328 -1.011565626 1707472	-1.481138		0.422191014	2.01051407	81 0.6634143809	0.0

Classification Statistics Metrics	×
Actual Value Column	Col13 Diagnosis 🔹
Prediction Value Column	Col14 Prediction 🔹
beta of F Score	2
Execute	Cancel

Accuracy: 0.93

F1-Score = 0.9199

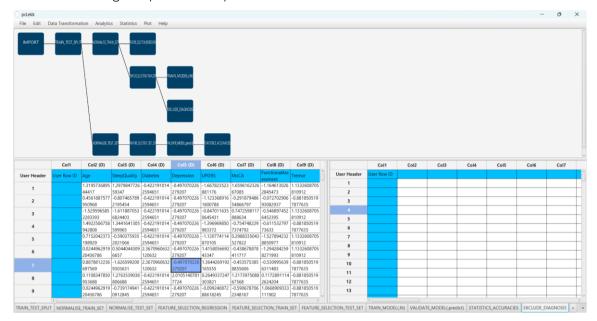
IMPORT	TRAIN_TEST_SPU		IN ST. EAR E															
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Ce		Col1 (S)	Col2 (D)	Col3 (S)	Col4 (S)	Col5	Col6	Col7	Col8	Col9	Col10
Jser Header	User Row ID	Age	SleepQuality	Diabetes	Depression	UPDRS	Mc	User Header	User Row ID									
1		0.0244962919	1.6678701021			-0.584500796	1.7	1		Q	Predicted Class	Predicted Class						
		20436786	024709 0.4138434815	120632	279207	7010027	28	2				0.0						
2		-0.148180694 42942722	892542	2594651	279207	0.0168980482 04466266	1.4	3	Actual Class	1.0		24						
3		-1.443258092	517645097769		-0.497070226	1.2541237802		4		0.0	15	185				-		-
	_	0534073	PROFESSION CONTRACTOR	2594651	279207	254408	37	5	Pictual Class	0.0	15	105						
4		-1.011565626 1787473	-1.598488511 7459724	-0.422191014 2594651	-0.497070226 279207	1.1495759649 955632	49.	6										
5						-0.322492833		-	Classification	0.9258555133							-	-
,		4032713	333847	2594651	279207	32095213	70	7	Accuracy	079848								
6		-0.579873160 3040873	0.1042828706	-0.422191014 2594651	-0.497070226 279207	-1.271730666 0348793	-0.	8										
7		-1.184242612		2.3670960632				9	Precision		0.9526813880							
'		5286114	71660186	120632	279207	8501642	16				126183	148325				-		-
8		-0.061842201 25449522	-1.412454916 1836897	2594651	-0.497070226	-1.464229858 2851163	47.	10	Recall/Sensitiv		0.9263803680	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
9			1.6030415128			0.1068956410		11	ity		981595	0.925						
,		7030082	820563	2594651	279207	3486997	91	12										
10		-0.8388886539 8288833	673045	2594651	2.0105140781	-0.828815656 0031603	-0.	13	Specificity		0.925	0.9263803680						
11		0.2835117714	-1.080226248	-0.422191014	-0.497070226	-0.198149496	-0.				(200000)	981595						
		452328	1200657	2594651	279207	23637082 0.6634143809	83	14			0.0303460110	0.9046454767						
12		-1.011565626	435158	2594651	2.0105140781	0.6634143809	0.0	15	F1 Score		0.9393468118	726161						
13		-1.011565626	1.4844881224	-0.422191014	2.0105140781	1.5735495923	1.1	16										
		1787473 0.4561887577	228321	2594651	7724	89819 1.1970487213	14	17	F (beta=2)			0.9167492566						
14		950968	66605095	2594651	7724	97051	64				711289	897919				-		
15			-0.934234563	-0.422191014	2.0105140781	0.6997935727		18										
		3536794 0.1971732782	8422481	2594651	7724		97	19	MCC	0.8445875112 35449								

Step 12: Reliability check of each record of the test set

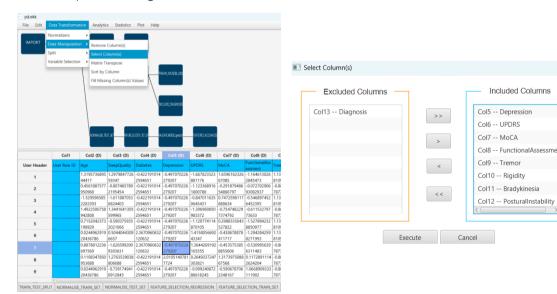
Step 12.a: Create the domain

Create a new tab by pressing the "+" button on the bottom of the page with the name "EXCLUDE_DIAGNOSIS".

Import data into the input spreadsheet of the "EXCLUDE_DIAGNOSIS" tab from the output of the "FEATURE_SELECTION_TRAIN_SET" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".



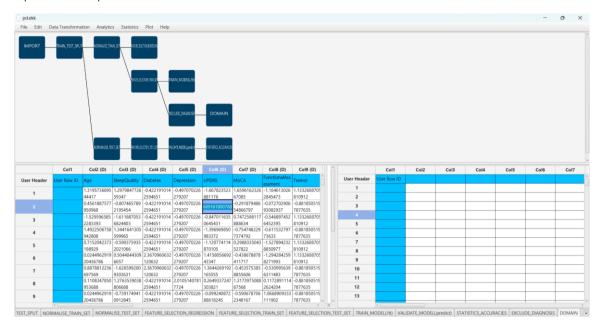
Manipulate the data to exclude the column that corresponds to the "Diagnosis" by browsing: "Data Transformation" \rightarrow "Data Manipulation" \rightarrow "Select Columns". Then select all the columns except the "Diagnosis".



The results will appear on the output spreadsheet.

Create a new tab by pressing the "+" button on the bottom of the page with the name "DOMAIN".

Import data into the input spreadsheet of the "DOMAIN" tab from the output of the "EXCLUDE_DIAGNOSIS" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".



Create the domain by browsing: "Statistics" \rightarrow "Domain APD".

File Edit	Data Transformat	tion Analytic	s Statistics	Plot Help				
Constant of		1	Domain - A					
IMPORT	TRAIN_TEST_SPUT	NORVAL SERVI	Model Met	rics				
			Probability	Distribution Fu	nctions			
		1	Descriptive	statistics				
		1	Confidence	Intervals	•			
		1	Hypothesis	Testing				
		1	Weight Car					
		1						
		1	Random N	umber Generat	or		1	
			Design of E	openiments		DOMAIN		
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		1						
		NORMALISE, TE	ST, ST		and a second second			
		A DAMA DE TE						
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)
User Header				Col4 (D) Diabetes	Col5 (D) Depression	Col5 (D) UPDRS	Col7 (D) MoCA	FunctionalA
		Col2 (D)	Col3 (D) SteepQuality		Depression		MoCA	FunctionalA
User Header 1		Col2 (D)	Col3 (D) SleepQuality 1.2979847726 59347	Diabetes -0.422191014 2594651	Depression -0.497070226 279207	UPDRS -1.667823523 881176	MoCA 1.6596162326 67085	Functional essment -1.1646130 2845473
1		Col2 (D) Age 1.3195736895 44417 0.4561887577	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789	Diabetes -0.422191014 2594651 -0.422191014	Depression -0.497070226 279207 -0.497070226	UPDRS -1.667823523 881176	MoCA 1.6596162326 67085 -0.291879486	FunctionalA essment -1.1646130 2845473 -0.0727029
		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454	Diabetes -0.422191014 2594651 -0.422191014 2594651	Depression -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 539161800785	MoCA 1.6596162326 67085 -0.291879486 54866797	FunctionalA essment -1.1646130 2845473 -0.0727029 93082937
1		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053	0iabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226	UPDRS -1.667823523 881176 -0.9161800768 -0.847011635	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117	Functional/ essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974
1 2 3		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585 2283393	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053 6824403	0iabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 539161800788 -0.847011635 0645431	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634	Functional essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395
1		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585 2283393 1.4922506758	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053 6824403 1.3441641305	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	UPORS -1.667823523 881176 -0.847011635 0645431 -1.396969850	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634 -0.754748229	Functional essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327
1 2 3 4		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585 2283393 1.4922506758 942808	Col3 (D) SteepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053 6824403 1.3441641305 599965	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 539161800788 -0.847011635 0645431 -1.396969850 983372	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792	Functional@ essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 73633
1 2 3		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585 2283393 1.4922506758 942808	Col3 (D) SteepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053 6824403 1.3441641305 599965	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 539161800788 -0.847011635 0645431 -1.396969850 983372	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634 -0.754748229	Functional essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 73633
1 2 3 4 5		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.52995685 -2.283393 1.4922506758 942808 0.7152042373 199229	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053 6824403 1.3441641305 599965 -0.590375935 2021066	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 -0.847011635 0645431 -1.396969850 983372 -1.120774114 870105	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792 0.2988335043 527822	Functional/ essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 73633 -1.5278942 8850977
1 2 3 4		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585 2283393 1.4922506758 942808 0.7152042373 198929 0.0244962919 0.0244962919	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053 6824403 1.3441641305 599965 -0.590475935 2021066 0.5044044309 6657	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 539161500783 -0.847011635 0645431 -1.396969850 983372 -1.120774114 870105 1.4158056692 43347	MoCA 1.6596162326 67085 0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792 0.2988335043 527822 -0.438678878 411717	Functional0 essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 73633 -1.5278942 8850977 -1.2942842 8271993
1 2 3 4 5 6		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 1.529596585 2283393 1.529596585 2283393 1.529596585 2283393 0.7152042373 199829 0.0244962919 0.0244962919 0.0244962919 0.0244962919 0.0244962919	Col3 (D) SteepCaulity 1.2979647726 59347 -0.807465789 2195454 -1.611887053 6824403 1.3441641305 599665 -0.590375935 2021066 0.554044309 6657 -1.626599200	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 2.3670960632	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	UPDRS -1.667823523 881176 -0.847011635 0645431 -1.396969850 98372 -1.120774114 870105 1.4158056692 43347 1.3644269192	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 886534 -0.754748229 7374792 0.2988335043 527822 -0.438678878 411717 -0.453575385	Functional/ essment -1.1646130. 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 -0.6115327 -3633 -1.5278942 8850977 -1.2942842 88271993 -0.5309956
1 2 3 4 5		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 1.4522506758 942808 0.7152042373 198929 0.02449629 0.02449629 0.02449629 0.02449629	Col3 (D) SeepCaulity 1.2979647726 59347 -0.807465789 2195454 -1.51188703 6824403 1.2441305 594664 -0.590375935 2021066 -0.59404430 6657 -1.626599200 9305611	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632 2.3670960632	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 -0.847011635 -0.847011635 -0.847011635 -1.396969850 983372 -1.120774114 870105 1.4158056692 43347 1.3644269192 1.65555	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792 0.2988335043 527822 -0.438678878 411717 -0.453575385 8555006	Functional/ essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 73633 -1.5278942 8850977 -1.2942842 8850977 -1.2942842 887093 -0.5309966 6311483
1 2 3 4 5 6		Col2 (D) Age 13195736895 44417 04561887577 950968 -1.529596585 228399 942808 0.7152042373 199829 0.024496786 0.024496786 0.024496786 0.024496786 0.03768012236 697569	Col3 (D) 3eepCluainty 1.2979847726 59347 -1.611887053 599655 -0.5040745789 2021066 0.504404309 6557 -1.62599200 9303631 1.227653590320	Diabetes 0.422191014 2594651 0.422191014 2594651 0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 23670960632 120632 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 59161800768 -0.847011635 0645431 -1.3669698450 983372 -1.120774114 870105 1.4158056692 43347 1.3644269192 165555 0.2649337247	MoCA 1.6596162326 67085 0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792 0.2988335043 527822 0.438678878 411717 -0.433575385 8855606 1.3173975088	Functional/ essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 73633 -1.5278942 8850977 -1.2942842 8271993 -0.3309956 6311483 -0.11728911
1 2 3 4 5 6 7		Col2 (D) Age 1.3195736895 44417 0.4561887577 900968 1-529596585 2283399 1.4922506758 942808 0.7152042373 198929 0.024996299 20436786 0.98776812236 697569 0.1100247850	Col3 (D) SteepCaulity 1.297947725 59347 -0.807465789 2195454 -0.807465789 2195454 -0.590375935 2021066 -0.590375935 2021066 -0.5904759200 9657 -1.626599200 90351 1.2763539033 805688	Dabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.6279900632 2.3670960632 120632 -0.422191014 2.367090632 120632 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 2.0105140781 7724	UPDRS -1.667823523 881176 -0.847011635 0645431 -1.39699850 983372 -1.290794114 870105 1.4158056692 43347 1.3644269192 165555 0.2649337247 303821	MoCA 1.6596162326 67085 0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792 0.2988335043 527822 -0.438678878 411717 -0.453875385 8855606 1.3173975088	Functional/ essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 73633 -1.5278942 8850977 -1.294284 8271993 -0.5309956 6311483 0.11728911 2624204
1 2 3 4 5 6 7		Col2 (D) Age 1.3195736895 44417 0.4561887577 900968 1-529596585 2283399 1.4922506758 942808 0.7152042373 198929 0.024996299 20436786 0.98776812236 697569 0.1100247850	Col3 (D) SteepCaulity 1.297947725 59347 -0.807465789 2195454 -0.807465789 2195454 -0.590375935 2021066 -0.590375935 2021066 -0.5904759200 9657 -1.626599200 90351 1.2763539033 805688	Dabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.6279900632 2.3670960632 120632 -0.422191014 2.367090632 120632 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 2.0105140781 7724	UPDRS -1.667823523 881176 59161800768 -0.847011635 0645431 -1.3669698450 983372 -1.120774114 870105 1.4158056692 43347 1.3644269192 165555 0.2649337247	MoCA 1.6596162326 67085 0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792 0.2988335043 527822 -0.438678878 411717 -0.453875385 8855606 1.3173975088	Functional/ essment -1.1646130 2845473 -0.0727029 93082937 -0.5468974 6452395 -0.6115327 73633 -1.5278942 8850977 -1.294284 8271993 -0.5309956 6311483 0.11728911 2624204

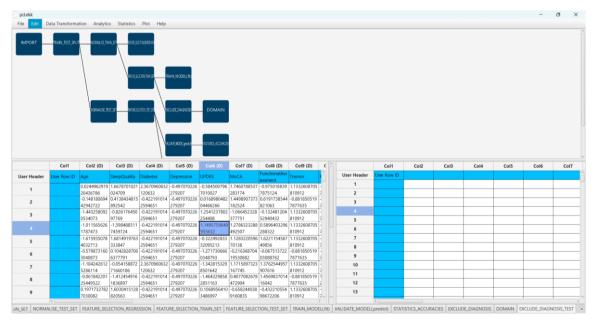
💽 Domain - APD	×
APD = d + Z σ , Z= 0.5	
Perform Computations CPU (double precision)	•
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		NURMUSE_IC																
	Col1	Col2 (D)	Col3 (D)	Col4 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)	Col9 (D)		llear Handar	Col1	Col2 (D)	Col3 (D)	Col4 (S)	Col5	Col6	Col
er Header	Col1 User Row ID	Col2 (D)	Col3 (D) SleepQuality	Diabetes	Depression	UPDRS	MoCA	FunctionalAss essment	Tremor		User Header	Col1 User Row ID	Domain	APD	Prediction	Col5	Col6	Col
er Header 1		Col2 (D) Age 1.3195736895	Col3 (D) SleepQuality 1.2979847726	Diabetes -0.422191014	Depression -0.497070226	UPDRS -1.667823523	MoCA 1.6596162326	FunctionalAss essment -1.164613026	Tremor 1.1332608705		User Header 1			APD 4.0982105283 99834	Prediction reliable	Col5	Colé	Col
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		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454	Diabetes -0.422191014 2594651 -0.422191014 2594651	Depression -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 -1.123368916 1800788	MoCA 1.6596162326 67085 -0.291879486 54866797	FunctionalAss essment -1.164613026 2845473 -0.072702906 93082937	Tremor 1.1332608705 810912 -0.881850515 7877635		1		Domain 0.0	APD 4.0982105283 99834 4.0982105283 99834 4.0982105283	Prediction reliable reliable	Col5	Col6	Col
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1 2		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585 2283393 1.4922506758	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053 6824403 1.3441641305	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	UPDRS -1.667823523 881176 -1.123368916 1800788 -0.847011635 0645431 -1.396969850	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634 -0.754748229	FunctionalAss essment -1.164613026 2845473 -0.072702906 93082937 -0.546897452 6452395 -0.611532797	Tremor 1.1332608705 810912 -0.881850515 7877635 1.1332608705 810912 -0.881850515	Ĵ	1		Domain 0.0 0.0	APD 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834	Prediction reliable reliable reliable reliable reliable	Col5	Col6	Col
1 2 3 4		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585 228393 1.4922506758 942808	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454 -1.611887053 6824403 1.3441641305 599965	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207	UPDRS -1.667823523 881176 -1.123368916 1800788 -0.847011635 0645431 -1.396969850 983372	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792	FunctionalAss essment -1.164613026 2845473 -0.072702906 93082937 -0.546897452 6452395 -0.611532797 73633	Tremor 1.1332608705 810912 -0.881850515 7877635 1.1332608705 810912 -0.881850515 7877635	0	1 2 3		Domain 0.0 0.0 0.0	APD 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834	Prediction reliable reliable reliable reliable reliable	Col5	Col6	Co
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1 2 3 4 5 6		Col2 (D) Age 1.3195736895 44417 0.4561887577 950968 -1.529596585 2283393 1.4922506759 942808 0.7152042373 199829 0.024496786 0.8878812236 697569 0.8878812236 (0.110824789	Col3 (D) SleepQuality 1-2379847726 59347 -1.611887053 6824403 -1.611887053 6824403 -1.5441641305 599665 -0.504044309 66577 -1.626599200 9308631 -1.276533903631	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2.3670960632 120632 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226	UPDRS -1.667823523 881176 -1.123368916 1800788 -0.847011635 0645431 -1.396969850 983372 -1.120774114 870105 1.4158056692 43347 1.3644269192 165555 0.2649337247	MoCA 1.6596162326 67085 -0.291879486 54866797 0.7472598117 888634 -0.754748229 7374792 0.298835643 527822 -0.438678878 411717 -0.453575385 8855606 1.3173975088	FunctionalAss essment -1.164613026 2845473 -0.072702906 93082937 -0.546897452 6452395 -0.611532797 73633 -1.527894232 8850977 -1.294284259 8271993 -0.530995639 6311483 0.1172891114	Tremor 1.1332608705 810912 -0.881850515 7877635 1.1332608705 810912 -0.881850515 7877635 1.1332608705 810912 -0.881850515 7877635 1.1332608705 810912 -0.881850515 -0.881850515	ő	1 2 3 4 5 6		Domain 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	APD 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283	Prediction reliable reliable reliable reliable reliable reliable reliable reliable	Col5	Col6	Co
1 2 3 4 5 6 7		Col2 (D) Age 13195736895 44417 CA561887577 950968 -1.529396385 2283393 1.4292506759 942808 0.024496789 0.1108347850 953668 0.1108347850 953668	Col3 (D) SleepQuality 1.2979847726 59347 -0.807465789 2195454 -1.61188705 6824403 1.3441641305 59965 0.5044044309 6657 -1.626599200 9303631 1.2763539038 866688	Diabetes -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 -0.422191014 2594651 2594651 2594651 2594651 2594651 25670960632 2.3670960632 2.3670960632 2.94651 -0.422191014 2594651 -0.422191014 2594651	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 279207 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.497070226 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0.49707026 -0	UPDRS -1.667823523 881176 -1.123368916 -1.123368916 -1.123768 -0.847011635 0.645431 -1.396969850 983372 -1.120774114 870105 -1.120774114 870105 -1.120774114 870105 -1.120774114 870105 -1.120774114 870105 -0.2649337247 303821	MoCA MoCA 1.6596162326 67085 -0.291879486 54866797 0.747259817 888634 -0.754748229 7374792 0.2988335043 527822 -0.438678828 -0.438678875 -0.4386757305 8855606 -0.5396778706 -0.5396778706	FunctionalAss essment -1.164613026 2845473 -0.072702906 93082937 -0.546897452 6452395 -0.611532797 73633 -1.527894232 8850977 -1.294284259 8271993 -0.530995639 6311483	Tremor 1 1.1332608705 810912 -0.881850515 7877635 1.1332608705 810912 -0.881850515 7877635 1.1332608705 810912 -0.881850515 7877635 -0.881850515 7877635 -0.881850515 7877635 -0.881850515 7877635 -0.881850515 7877635	ŝ	1 2 3 4 5 6 7		Domain 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	APD 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834 4.0982105283 99834	Prediction reliable reliable reliable reliable reliable reliable reliable reliable	Col5	Col6	

Step 12.b: Check the test set reliability

Create a new tab by pressing the "+" button on the bottom of the page with the name "EXCLUDE_DIAGNOSIS_TEST_SET".

Import data into the input spreadsheet of the "EXCLUDE_DIAGNOSIS_TEST_SET" tab from the output of the "FEATURE_SELECTION_TEST_SET" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".

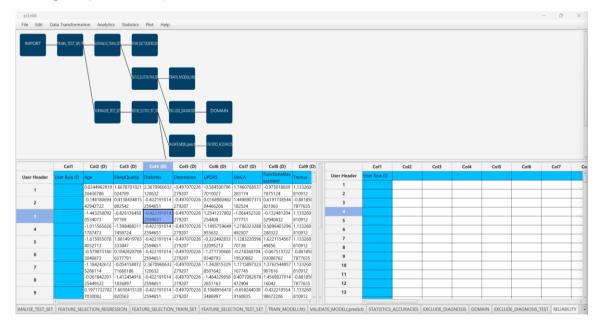


Filter the data to exclude the column that corresponds to the "Diagnosis" by browsing: "Data Transformation" \rightarrow "Data Manipulation" \rightarrow "Select Columns". Then select all the columns except "Diagnosis".

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User Header	Col1 User Row ID	Col2 (D)	Col3 (D) SleepQuality	Col4 (D) Diabetes	Col5 (D) Depression	Col6 (D) UPDRS	Col7 (D) MoCA	FunctionalA					>		Col8		ssessmei
		Age		Diabetes	Depression	UPDRS	MoCA	FunctionalA essment							Col8 Col9	- FunctionalA	ssessmer
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		Age 0.0244962919 20436786 -0.148180694 42942722	SleepQuality 1.6678701021 024709 0.4138434815 892542	Diabetes 2.3670960632 120632 -0.422191014 2594651	Depression -0.497070226 279207 -0.497070226 279207	UPDRS -0.584500796 7010027 0.0168980482 04466266	MoCA 1.7460788537 283174 1.4498907373 182524	FunctionalA essment -0.9750188 7875124 0.61917385 821063							Col8 Col9 Col10 Col11	- FunctionalAs - Tremor Rigidity Bradykines	ia
1		Age 0.0244962919 20436786 -0.148180694 42942722 -1.443258092	SleepQuality 1.6678701021 024709 0.4138434815 892542 -0.826176450	Diabetes 2.3670960632 120632 -0.422191014 2594651 -0.422191014	Depression -0.497070226 279207 -0.497070226 279207 -0.497070226	UPDRS -0.584500796 7010027 0.0168980482 04466266 1.2541237802	MoCA 1.7460788537 283174 2 1.4498907373 182524 2 -1.066452328	FunctionalA essment -0.9750188 7875124 0.61917385 821063 -0.1324812					<]	Col8 Col9 Col10 Col11	- FunctionalA - Tremor Rigidity	ia
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Create a new tab by pressing the "+" button on the bottom of the page with the name "RELIABILITY".

Import data into the input spreadsheet of the "RELIABILITY" tab from the output of the "EXCLUDE_DIAGNOSIS_TEST_SET" tab by right-clicking on the input spreadsheet and then choosing "Import from SpreadSheet".

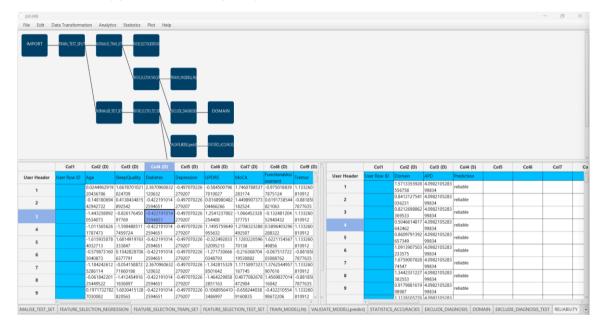


Check the Reliability of the test set predictions by browsing: "Analytics" \rightarrow "Existing Model Utilization". Then select as Model "(from Tab:) DOMAIN".

- pd.ekk

	-	Regressi	cn.								
IMPORT	TRAIN_TEST_SPL	Classific Clusterin	ation							Existing Model Execution	
			y Detection Model Utilizatio		RAN, MODELLAR					Model (from Tab:)DOMAIN - Type APD Model	
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	Col1	Col2 (D)	Col3 (D)	Co14 (D)	Col5 (D)	Col6 (D)	Col7 (D)	Col8 (D)	Col9 (D)		
er Header	Col1 User Row ID	Col2 (D)	Col3 (D) SleepQuality	Cold (D) Diabetes	Col5 (D)		Col7 (D) MoCA	Col8 (D) FunctionalAss		Age -> Double	
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The results will appear on the output spreadsheet.



There are no unreliable samples in the test set.

Final Isalos Workflow

Following the above-described steps, the final workflow on Isalos will look like this:

