



Two-Way ANOVA analysis on screen time for Indian kids of various ages

This dataset contains the screen times of Indian kids. We will analyze the screen time for each age and sex.

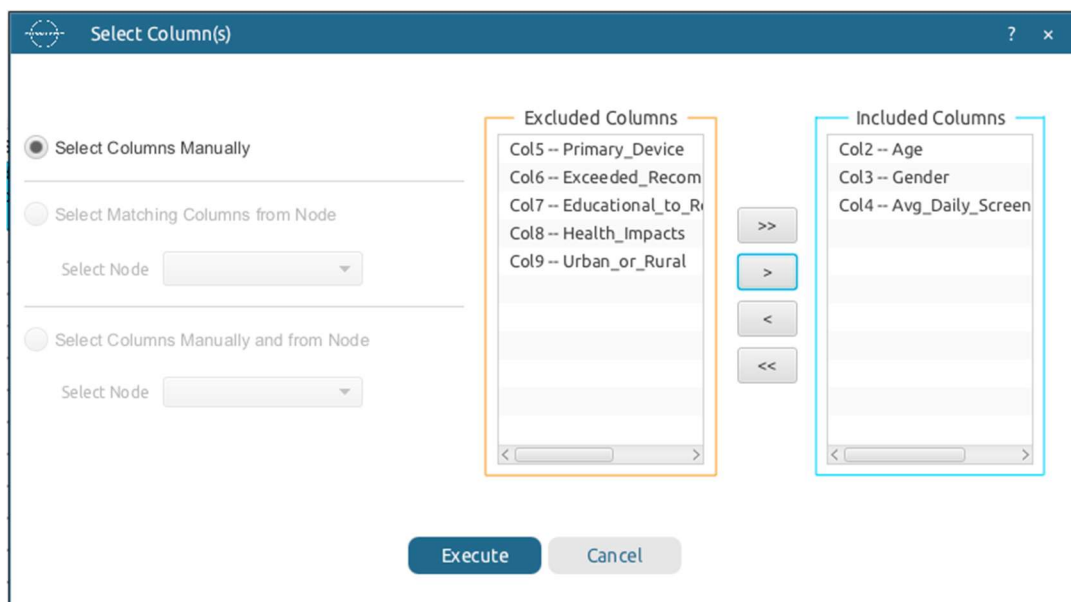
The variables examined are Age and Sex.

Isalos version used: 2.1.2

Dataset: <https://www.kaggle.com/datasets/ankushpanday2/indian-kids-screentime-2025>

Step 1: Data preparation

Import dataset and rename the tab to “Data”. Go to Data Transformation → Data Manipulation → Select Column(s), transfer “Col2 – Age”, “Col3 – Gender”, “Col4 – Avg_Daily_Screen_Time_hr” to the “Included Columns” and click “Execute”



	Col1	Col2 (I)	Col3 (S)	Col4 ...
User Header	User Row ID	Age	Gender	Avg_...
1		14	Male	3.99
2		11	Female	4.61
3		18	Female	3.73
4		15	Female	1.21
5		12	Female	5.89
6		14	Female	4.88
7		17	Male	2.97
8		10	Male	2.74
9		14	Male	4.61
10		18	Male	3.24
11		18	Male	3.53
12		15	Female	4.94
13		12	Male	4.59
14		11	Male	6.08
15		15	Male	6.15
16		15	Female	3.69
17		10	Female	7.1
18		13	Female	6.98
19		12	Male	3.82
20		9	Female	0.0
21		15	Male	3.85
22		13	Female	4.05

Step 2: Two-Way ANOVA

Create a new tab named “ANOVA” and import the spreadsheet from the “Data” tab. To perform the analysis, go to Statistics → Analysis of (Co)Variance → Two-Way ANOVA and select “Age” as Factor A, “Gender” as Factor B, “Avg_Daily_Screen_Time_Hr” as Response Variable and click Execute

Two Way ANOVA

Factor A

Col2 -- Age

Factor B

Col3 -- Gender

Response Variable

Col4 -- Avg_Daily_Screen...

Execute

Cancel

The results are shown in the right spreadsheet:

	Col1	Col2 (S)	Col3 (I)	Col4 ...	Col5 (D)	Col6 (D)	Col7 (D)
User Header	User Row ID	Source	DF	Adj SS	Adj MS	F-value	P-value
1		Factor A: Age	10	693.0100495	69.3010050	24.0354055	0.0
2		Factor B: Gender	1	6.2473123	6.2473123	2.1667317	0.1410582
3		Interaction: Age * Gender	10	31.6849673	3.1684967	1.0989177	0.3584940
4		Error	9690	27939.0642199	2.8832884		
5		Total	9711	28670.0065490			

Final Isalos Workflow:

