

# Training Program on Data Analytics (26<sup>th</sup> July, 2023 to 26<sup>th</sup> Aug., 2023)

Data Analytics involves the examination and interpretation of data to extract valuable insights, patterns, and trends. It encompasses various techniques and tools to process, clean, and analyze large datasets, aiming to inform decision-making and provide actionable information. A 30 Days Data Analytics Masterclass was offered to the students from 26<sup>th</sup> July, 2023 to 26<sup>th</sup> Aug, 2023. Dr. Souvik Ganguli from the Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala was the coordinator of the program. The program link is shared for reference:

[https://www.youtube.com/watch?v=5Bcd2Em8nfA&list=PLMVm21xCcvZc9Vv\\_qk8Hn3\\_7IzhmxwKQO](https://www.youtube.com/watch?v=5Bcd2Em8nfA&list=PLMVm21xCcvZc9Vv_qk8Hn3_7IzhmxwKQO)

**DATA ANALYTICS**  
Preprocessing, analysing, Visualizing

Data Analysis is a process of finding insights from the information

DATA → INFORMATION → INSIGHTS

Raw data → Cleaned Data → Insights data visualization

**LIFE CYCLE**

IDENTIFY → COLLECTION → CLEAN DATA → ANALYZE → INTERPRET

**PIVOT TABLE**  
PIVOT TABLE allows you to easily organize, filter, summarize and analyze raw data

**TABLE LAYOUTS-TABULAR FORM**

Tabular Form (non-repeating):  
Tabular Form (repeating):

**PRO TIP:**  
Use Outline Form when you are manipulating data within a Pivot, and switch to Tabular form with repeating labels (and no grand totals or subtotals) if you want to create a new raw dataset

**Enriching Data with pivot table calculated & fields**

Country	Sum of Gross Revenue	Average of Gross Revenue	Sum of Budget
9 Action	\$67,54,08,90,818	\$7,50,45,434	\$62,34,76,20,549
10 Adventure	\$80,97,18,35,977	\$8,55,56,177	\$74,81,64,25,575
11 Animation	\$38,01,06,74,545	\$4,23,44,292	\$2,47,07,30,000
12 Biography	\$7,49,49,03,091	\$8,23,21,060	\$5,20,20,44,003
13 Comedy	\$58,02,79,93,497	\$3,74,29,127	\$50,28,94,57,007
14 Crime	\$8,11,97,07,029	\$3,22,21,060	\$10,53,46,21,560
15 Documentary	\$54,82,15,042	\$1,27,49,187	\$87,49,31,311
16 Drama	\$20,04,54,18,442	\$2,98,29,492	\$19,24,96,48,245
18 Family	\$44,74,81,433	\$14,91,40,478	\$4,45,00,000
19 Fantasy	\$1,39,98,95,199	\$1,99,97,006	\$58,63,00,000
20 Horror	\$0,19,98,72,987	\$3,84,30,278	\$2,30,96,00,479
21 Musical	\$18,41,68,000	\$9,20,84,000	\$63,79,000
22 Mystery	\$1,12,79,63,819	\$4,90,41,205	\$77,94,63,000
23 Romance	\$6,26,59,016	\$2,08,86,319	\$12,02,15,000
24 Sci-Fi	\$10,65,74,725	\$2,60,72,841	\$19,43,50,000
25 Thriller	\$1,21,15,911	\$40,513	\$18,07,000
26 Western	\$4,77,43,768	\$1,59,14,589	\$81,30,000
27 Grand Total	\$1,85,23,67,17,827	\$4,97,27,978	\$1,45,26,67,89,249

**PANTECH CASE STUDY STOCK MARKET**

Day - 10 Analyzing tracking Daily weather conditions



**PANTECH**  
**CASE STUDY:  
DAILY WEATHER  
CONDITIONS**  
PRESENTATION

1:47 / 55:55

This video frame shows a presentation slide for Pantech. The slide features a dark blue background with white text. The title 'CASE STUDY: DAILY WEATHER CONDITIONS' is prominently displayed in a large, bold font. Below the title, the word 'PRESENTATION' is written in a smaller font. The background of the slide includes a photograph of three business professionals (two men and one woman) gathered around a laptop, appearing to be in a collaborative meeting. The video player interface at the bottom shows a progress bar at 1:47 out of 55:55.

Day - 12 How to install tableau and create first Visualization

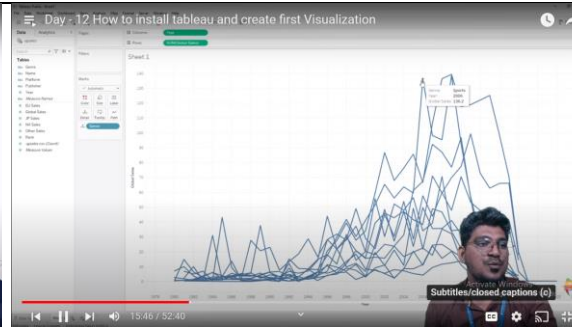


Tableau  
Sheet 1

15:46 / 52:40

Subtitles/closed captions (c)

This video frame shows a Tableau tutorial. The main content is a line chart visualization on a grid. The chart has multiple blue lines representing different data series over time. The y-axis is labeled with numerical values from 0 to 1000. The x-axis represents time. The Tableau interface is visible, showing the 'Columns' shelf with 'Date' and the 'Rows' shelf with 'Sum of Sales'. The video player interface at the bottom shows a progress bar at 15:46 out of 52:40 and a subtitle/closed captions button.