**IDENTIFYING TRENDS IN TV SHOWS DATASET(TMDB) OF 2024**

The idea is to Analyze and **identify correlations and trends** within a dataset of

TV Shows of 2024 TMDB to uncover trends and relationships between various attributes.

**PACKAGES IMPORTED**

* Pandas
* Numpy
* Seaborn
* Matplot
* Matplot – pyplot and mlab

**STEPS FOLLOWED TO DATA CLEAN**

1. Looped through the Data and founded any **missing data**
2. Displayed the **data types** of the columns
3. **Renamed the column** to avoid the Spelling error and symbols
4. **Changed the datatypes** from float to int
5. Created **New column – Year** from Date
6. **Sorted Values in dataset** by popularity column
7. Using **Scatter plot** plotted against **Popularity Column and Vote count** to find the

relationship between the two variables.

1. Using **Seaborn plot** plotted against **Popularity Column and Vote count** to find

the relationship between the two variables.

1. Did **Correlation matrix** in all 3 methods such as **Pearson ,Kendall ,Spearman**

to understand and visualize the relationships between multiple variables in

a dataset between all the numeric problems.

10.**The Spearman matrix had a good correlation between the columns**

11.Did correlation matrix for all the numeric features by using **Seaborn heatmap**

12.Displayed **the top 15 Production Companies** by popularity.

13. **Grouped the production** **companies** by the **Year** column

14**. Numeri zed all the columns** to get the detailed correlation and identify the

pattern by using **for loop**

15.Did **Correlation matrix** for the numeri zed column again

16**. Unstacked the results** to find the most corelated pairs

17**.Sorted** the unstacked corelated pairs.

18.Founded **strong pairs** by keeping the absolute value of the **sorted pair>0.4**

19. Displayed the **high Corelated pairs**.

**TRENDS AND ATTRIBUTES FOUNDED TO HAVE A STRONG CORRELATIOJN PAIR**

Surprisingly

1. **Spoken languages** and **original languages** have a good correlation of 0.402505

2. **Production companies** and **Production countries** have a good correlation of 0.428351