RESULTS AND INSIGHTS OF YOUTUBE_ANALYSIS

Word Clouds:

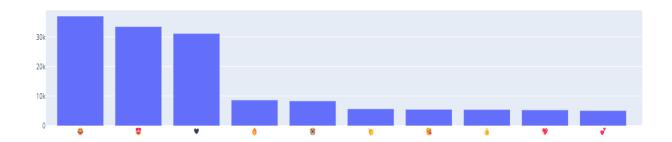
- The first two plots are word clouds generated from the dataset.
- Word clouds visually represent ta dataset's most frequent words or terms with word size indicating frequency.
- The first-word cloud represents **positive comments**, while the second one represents **negative comments**.
- They are useful for identifying common themes or keywords in textual data.





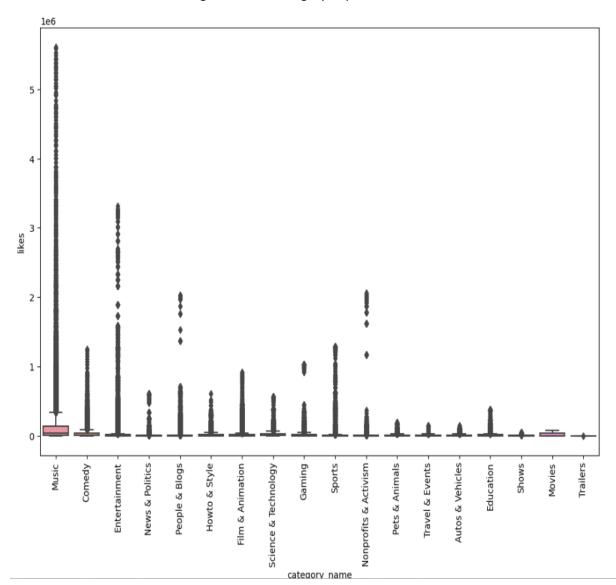
Bar Chart (Emojis Frequency):

- This bar chart shows the frequency of emojis used in the data.
- Each bar represents an emoji, and the height of the bar indicates how often that emoji appears.
- It provides insights into the prevalence of emojis in the dataset.



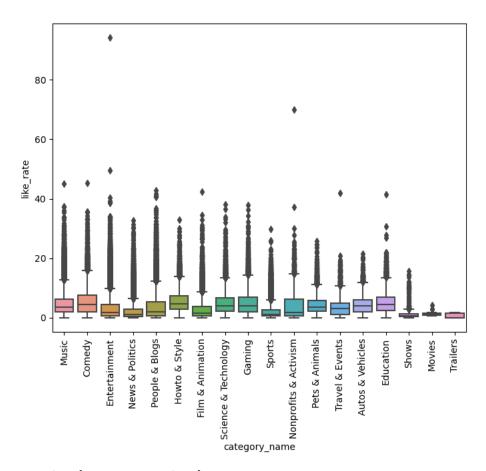
Box Plot (Likes vs. Video Categories):

- The first box plot compares the distribution of 'likes' across different video categories.
- It helps visualize the spread and central tendency of likes for each category.
- Useful for understanding how video category impacts the number of likes.



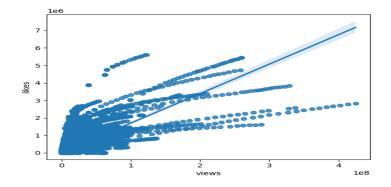
Box Plot (Like Rate vs. Video Categories):

- The second box plot compares the distribution of 'like_rate' (likes per view) across video categories.
- It provides insights into audience engagement with videos in different categories.
- Helpful for analyzing the relative popularity of categories.



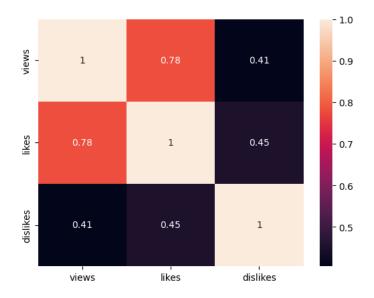
Regression Plot (Views vs. Likes):

- This regression plot shows the relationship between the number of 'views' and the number of 'likes' for videos.
- It helps identify if there's a linear correlation between these two variables.
- Its straight line shows that as number of views will increase then number of likes will also increase



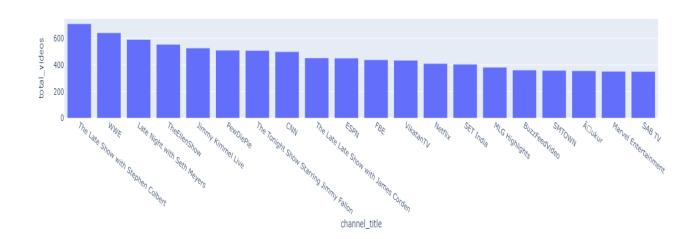
Heatmap ("The heatmap illustrates the correlation matrix among the variables 'views,' 'likes,' and 'dislikes):

- The correlation between 'views' and 'likes' signifies how the number of views relates to the number of likes a video receives.(if views will be increase by 100 then likes will be increase by 78)
- The correlation between 'views' and 'dislikes' measures the relationship between the number of views and the number of dislikes.
- The correlation between 'likes' and 'dislikes' gauges the connection between the number of likes and the number of dislikes.



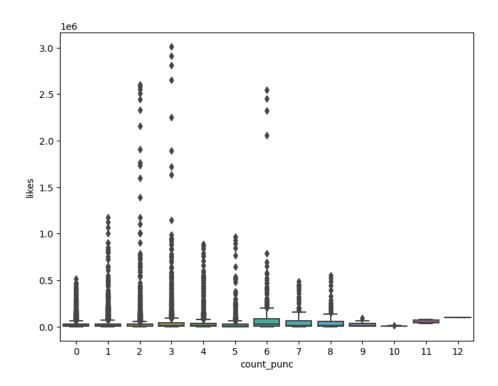
Bar Chart (Top 20 Channel Titles):

- The bar chart displays the top 20 channel titles based on a specific criterion (could be views, likes, etc.).
- Each bar represents a channel title, and the height represents the corresponding metric.
- It's useful for identifying the most influential or popular channels.



Box Plot (Views vs. Punctuation Count):

- The first box plot examines how the count of punctuation in video titles affects the number of 'views.'
- It provides insights into whether the use of punctuation has any impact on views.



Box Plot (Likes vs. Punctuation Count):

- The second box plot investigates the relationship between the count of punctuation in video titles and the number of 'likes.'
- It helps determine if there's a correlation between punctuation and likes.

