YOUTUBE TRENDING VIDEO ANALYTICS – INDIA VS US

Objective:

To uncover actionable insights from trending YouTube videos across India and the US by analyzing sentiment, viewership patterns, timing, and engagement.

Tools Used:

- Python Data cleaning, sentiment analysis using VADER
- PostgreSQL (pgAdmin) SQL-based category ranking
- Tableau Visual storytelling & interactive dashboard

Dataset:

- Source: [Kaggle Trending YouTube Data (INvideos.csv & USvideos.csv)]
- Combined 40,000+ records across 2 countries

Data Processing:

- Merged India & US datasets
- Cleaned nulls & duplicates
- Extracted Publish Day, Publish Hour
- Performed sentiment analysis on titles (Positive, Neutral, Negative)

INSIGHTS & VISUAL SUMMARY

6 Key Insights

• Top Categories:

Entertainment and Music receive the highest average views across both countries.

• Best Time to Publish:

➤ 6–9 PM (local time) on weekdays yields the most engagement.

• Sentiment Impact:

> Titles with **positive sentiment** received higher views compared to neutral or negative ones.

• India vs US Comparison:

➤ US videos had higher overall likes, but Indian videos had more consistent average views across categories.

Trending Pattern:

Trending views grew steadily over time, with notable spikes during weekends and holidays.

Top Channels by Views:

➤ A few dominant channels regularly appear in the top-viewed category, showing strong brand recall.

Visuals Included:

1. Bar Chart: Avg. Views by Category and Country

2. Pie Chart: Sentiment Distribution by Views

3. Heatmap: Best Time (Day vs Hour) to Publish

4. Line Chart: Viewership Trend Over Time

5. **Side-by-Side Bar:** Likes vs Dislikes by Country

6. **Treemap:** Top Channels by Total Views

Conclusion:

This project offers creators, brands, and marketers a data-backed blueprint to optimize **video timing**, **content tone**, and **category focus**. The final dashboard makes these insights highly interactive and actionable.