

# YouTube India Dashboard - Final Project Summary

## Project Overview:

This dashboard analyzes YouTube India data using Plotly and Dash. It visualizes trends like title lengths, category views, tag frequency, channel activity, and publishing timelines.

## Features Implemented:

- Histogram of video title lengths
- Bar chart of total views by category
- Horizontal bar charts for top 20 tags and channels
- Line chart showing videos published over time
- Dark theme for better visual appeal

## Tech Stack:

- Python
- Dash (Plotly)
- Pandas

## Resolved Issues:

- Fixed Narwhals import conflict by switching to stable Pandas backend using ``pio.data_backend = 'pandas'``.

## Next Steps (Optional Enhancements):

- Add dropdowns or filters for user interactivity
- Export charts or datasets for download
- Deploy to web (e.g., Heroku, Streamlit, Render)
- Add README and setup instructions for sharing

Congratulations on completing the project!