Project Documentation:

India-Australia Trade Data Visualization Dashboard

Project Summary

This project aims to provide a comprehensive, interactive visualization of India-Australia trade data, focusing on export and import values. The dashboard is web-based and leverages Python-based tools for data manipulation, cleaning, and visualization.

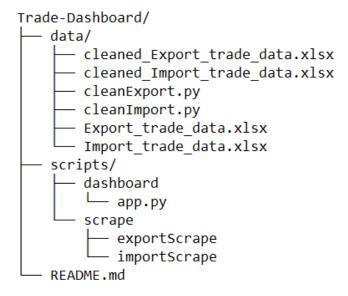
Tools & Libraries

- Pandas: Used for handling and transforming the trade data.
- **Dash**: A web framework that powers the interactive dashboard.
- **Plotly**: Utilized for generating interactive plots and graphs.
- Selenium: Automates web scraping to extract trade data from the source website.
- **WebDriver Manager**: Ensures correct versioning and management of Selenium WebDriver binaries.
- OpenPyXL: Handles reading and writing Excel files.

Data Source

The trade data is sourced from the Ministry of Commerce's Trade Statistics portal (https://tradestat.commerce.gov.in/eidb/default.asp). Note that there are certain months where data is unavailable, creating gaps in the dataset.

Project Structure:

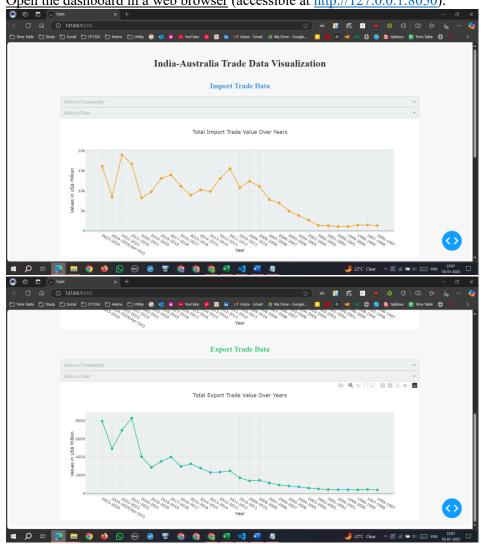


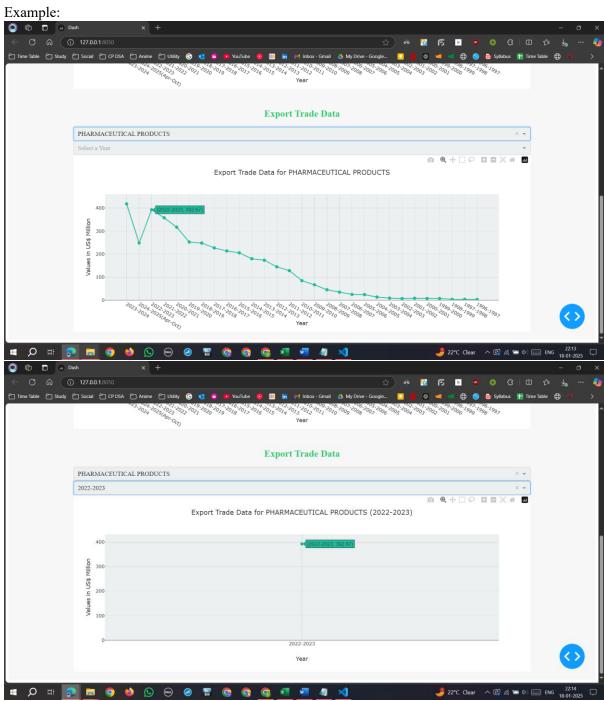
Instructions:

- 1. <u>Install required libraries using:</u> pip install pandas dash plotly selenium webdriver-manager openpyxl
- 2. Run the scraping scripts to collect and clean the data: python Export_scrap_year.py python Import_scrape_year.py python clean.py (in their respective directories)
- 3. <u>Start the dashboard by running:</u> python Dashboard.py



4. Open the dashboard in a web browser (accessible at http://127.0.0.1:8050).





90	ELECTRIC/	2022-2023	417.44
91	PHARMAC	2022-2023	392.67
92	NATURAL	2022-2023	343.2