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.

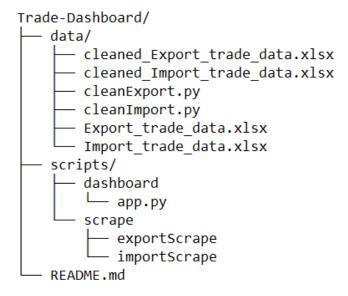
Tools & Libraries

- 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 importScrape.py python Exportcrape.py python cleanExport.py python cleanImport.py (in their respective directories)
- 3. Start the dashboard by running:

PYTHON app.py

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE

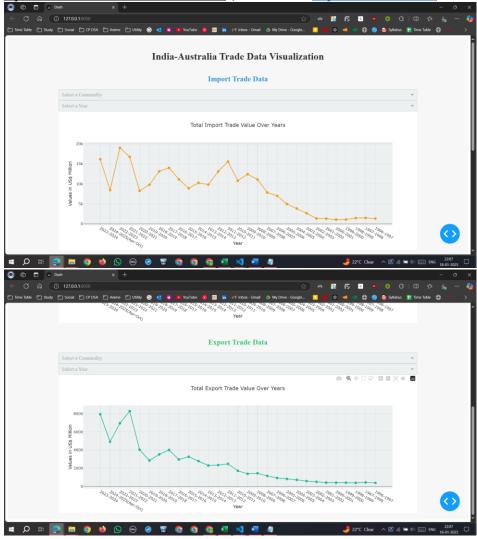
PS C:\Users\Siddhant\Desktop\Trade-Dashboard\scripts\dashboard> python app.py

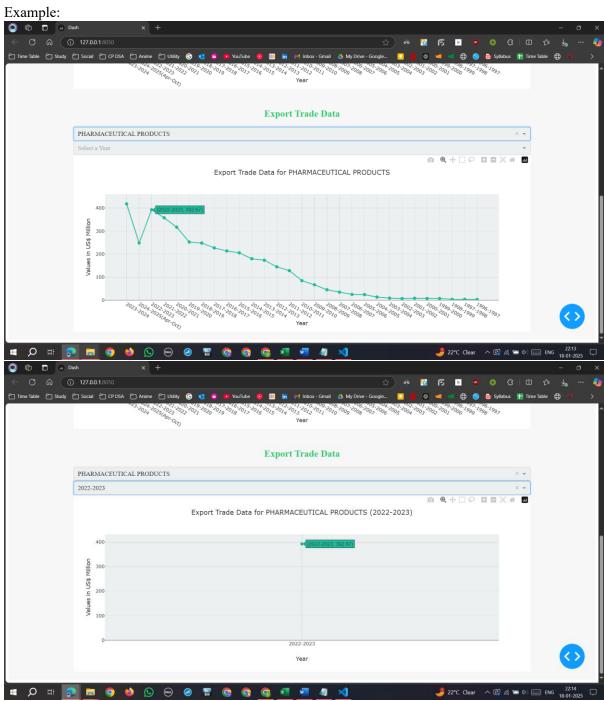
Dash is running on http://127.0.0.1:8050/

* Serving Flask app 'app'

* Debug mode: on

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