Title: Zone and Region-wise Data Extraction from FCI Website using Selenium

A Web Scraping Project Presented by: Punit Upadhye



Objective

- Extract structured data from the Food Corporation of India (FCI) website
- Automate the process using Selenium and BeautifulSoup
- Save data for all zone and region combinations into a structured DataFrame

Tools and Libraries

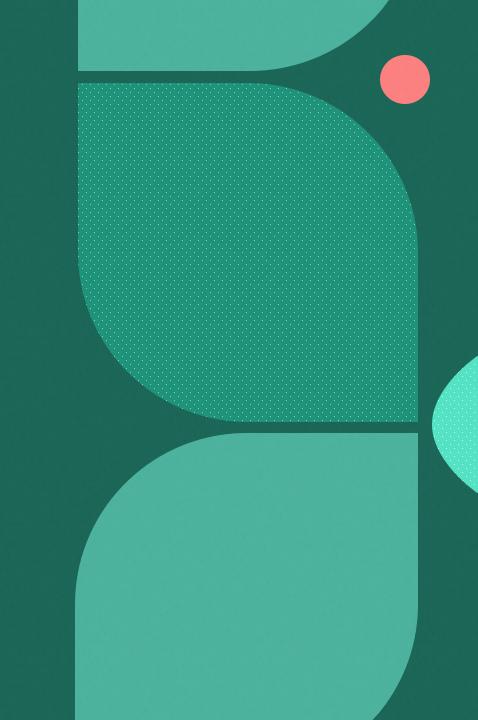
- Selenium (for automation)
- BeautifulSoup (for HTML parsing)
- Pandas (for data storage and analysis)
- Chrome WebDriver

Workflow Overview

- Launch FCI website
- Click "Translate" to switch to English
- Loop through zone-region combinations
- Extract data using BeautifulSoup
- Store in Pandas DataFrame

Setup

- Import libraries
- Set up Chrome WebDriver path
- Launch browser and open FCI website
- Click the translate button to enable English



Zone-Region Loop

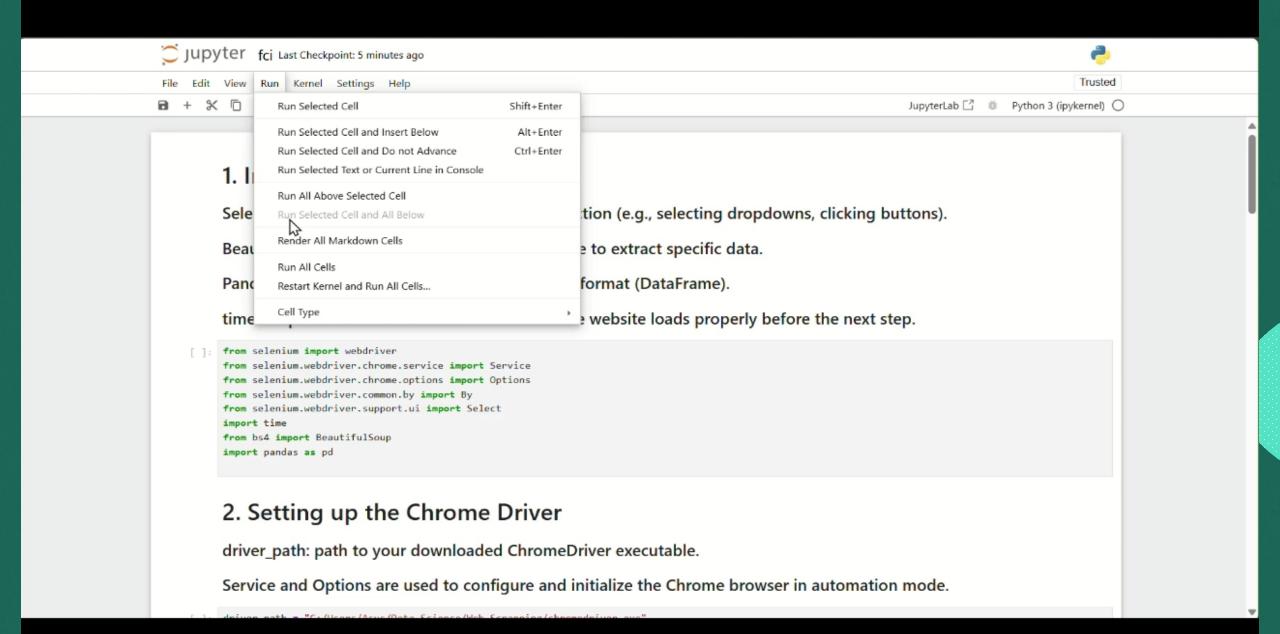
- Defined all zone-region pairs manually
- Select zone using dropdown
- Wait for region options to load
- Select region

Data Extraction

- Parse HTML with BeautifulSoup
- Extract:
 - Titles (e.g., "Total Capacity")
 - Values (e.g., "4,69,494 MT")
- Create dictionary with zone, region, titles, and values

Building DataFrame

- Append all dictionaries to a list
- Convert list to Pandas DataFrame
- Easy to read, analyze, and export



Conclusion

- Demonstrated automation and data extraction
- Delivered clean, structured government data
- Ready for further analysis and reporting

Thank you!

