

Flipkart Mobile Data Web Scrapping

Project Description:

Flipkart Mobile Data Scrapping with Beautiful Soup and Pandas

This project aims to develop a Python script that scrapes mobile data from Flipkart using Beautiful Soup for web scraping and Pandas for data manipulation.

Project Objectives:

Extract key mobile data: The script will target specific information like mobile names, prices, and ratings from Flipkart product listings.

Organise data in a structured format: The scraped data will be stored in a Pandas DataFrame, allowing for easy analysis and manipulation.

Automate data collection: This script automates the process of collecting mobile data from Flipkart, eliminating the need for manual data entry.

Deliverables:

A Python script using Beautiful Soup and Pandas to scrape mobile data from Flipkart.

A Pandas DataFrame containing the extracted mobile data (mobile names, prices, ratings).

Optionally, the script can be configured to save the data to a CSV file for further use.

Target Audience:

This project is beneficial for:

Individuals who want to collect and analyse mobile data from Flipkart.

Businesses looking to track mobile price trends or product availability.

Developers interested in learning web scraping techniques with Beautiful Soup and Pandas.

Technical Skills Required:

Python programming

Basic understanding of web scraping concepts

Familiarity with Beautiful Soup and Pandas libraries

Project Scope:

This project focuses on scraping data from a single page on Flipkart.

It targets specific data points like names, prices, and ratings.

While the script can be enhanced to handle pagination for scraping across multiple pages, this initial version excludes that functionality.

Potential Next Steps:

Expand data extraction to include additional product details like specifications and brand.

Implement robust error handling to manage potential changes in Flipkart's website structure.

Develop pagination logic to scrape data from multiple pages and collect a more comprehensive dataset.

This project provides a foundation for automated mobile data collection from Flipkart. With further development, it can be a valuable tool for data analysis and informed decision-making.

Conclusion :

This project automates scraping Flipkart mobile data (names, prices, ratings) using Python libraries. It stores the data in a clean Pandas DataFrame for easy analysis, saving time and effort. It's useful for researchers, businesses, and developers learning web scraping. While it starts with one page, it can be enhanced to scrape more data and adapt to website changes.