

Smartphone-Rating-Analysis-iPhone15-vs-SamsungS24

Project Description-

This repository hosts a Python project that focuses on web scraping smartphone reviews from Amazon India's product pages. The project specifically compares two flagship models: the iPhone 15 and the Samsung Galaxy S24. Using Python libraries such as `requests` and `BeautifulSoup`, the script automates the collection of user reviews directly from the Amazon product pages.

Limitations:

Due to constraints imposed by Amazon's website, the scraping was limited to extracting only 12 reviews for each smartphone model. Consequently, the data visualized in this project represents a relatively small sample size, which may not fully encapsulate the broader consumer opinions typically available through more extensive reviews.

Data Handling and Visualization:

After successfully scraping the review data, it was organized and stored in Excel format for ease of access and manipulation. Using the Python library `Seaborn`, the data was then visualized to compare the average ratings of the two smartphones. The visualization process involved creating sophisticated graphs that clearly display the average ratings, utilizing bar plots with error bars to represent the variability in the data. This approach not only highlights the central tendencies of the ratings but also provides insight into the spread and reliability of the user reviews collected.

The graphs generated by Seaborn offer a compelling visual comparison of the user satisfaction between the iPhone 15 and Samsung Galaxy S24, based on the limited data set. This project exemplifies how Python's powerful libraries can be leveraged for web scraping and data visualization, even when faced with data acquisition restrictions.