

Myntra Review Scrapper

PW Skills

Project Overview

- This project is a Myntra review scraper that allows users to extract and analyze customer reviews from the Myntra website.
- The scraper collects valuable information, such as product ratings, reviews, and user feedback, providing insights into customer sentiments and preferences.
- Objective: Develop a web scraper to extract customer reviews and ratings from Myntra's product pages.
- Purpose: Gain insights into customer sentiments and preferences to inform business decisions. Outcome: A structured dataset containing product reviews, ratings, and user feedback.
- Data Source: Myntra's official website. Technologies Used: Python, BeautifulSoup, Requests, Pandas, Flask/Streamlit.
- Process Flow: User inputs product URL. Scraper fetches and parses the webpage. Extracted data is cleaned and stored. Data is presented in a user-friendly format

Requirements

System Requirements

- Python Version: 3.10
- Package Manager: Conda
- Required Libraries:
 - requests
 - beautifulsoup4
 - pandas
 - Flask/streamlit
 - gunicorn

GitHub Link: <https://github.com/PWskills-DataScienceTeam/myntra-review-scrapper>

Implementation Steps

- Setup Environment:**

- Clone the repository.
- Create and activate a Conda environment.

- Install Dependencies:**

- Run `pip install -r requirements.txt`.

- Run Application:**

- Execute `python app.py` to start the Flask server. `streamlit run app.py` for starting Streamlit server

- Access Interface:**

- Navigate to `http://localhost:5000` in your browser. (Flask) but port 8501 for streamlit

- Input URL:**

- Enter the Myntra product URL to scrape reviews.

- View Results:**

- Scraped data is displayed and can be downloaded

Libraries for the Project

- requests:** Handles HTTP requests to fetch web pages.
- beautifulsoup4:** Parses HTML content to extract specific data.
- pandas:** Structures and manipulates data for analysis.
- Flask/streamlit:** Creates a web interface for user interaction.
- unicorn:** Serves the Flask application in production environments

Data Extraction Process

- User Input: Myntra product URL.
- HTTP Request: Fetches the product page content.
- HTML Parsing: Identifies and extracts review sections.
- Data Cleaning: Removes unnecessary characters and formats data.
- Data Storage: Organizes data into a structured format (e.g., CSV)

Conclusion

Benefits and Applications

- ▶ **Customer Insights:** Understand customer satisfaction and areas of improvement. **Product Development:** Inform design and feature enhancements based on feedback.
- ▶ **Marketing Strategies:** Tailor campaigns to address common customer concerns. **Competitive Analysis:** Benchmark against competitors by analyzing similar products

Future Enhancements

- **Sentiment Analysis:** Integrate NLP techniques to gauge overall sentiment.
- **Automation:** Schedule regular scraping for continuous data updates.
- **Data Visualization:** Implement dashboards to visualize trends and patterns.
- **Scalability:** Extend scraper to other e-commerce platforms.

Recap: Developed a tool to extract and analyze customer reviews from Myntra.

Impact: Provides valuable insights for product and business strategy.