Multi -Source Price Intelligence

Abstract

The increasing popularity of online shopping has led users to explore multiple e-commerce platforms such as Amazon, Flipkart, Myntra, Ajio, and Meesho to find the best possible prices for products. However, the rapid fluctuations in online prices, flash sales, and platform-specific discounts make it difficult for users to manually monitor prices across all apps. This often results in missed deals and unnecessary overspending. To address this problem, the proposed *Multi-App Price Tracker and Notification System* offers an automated solution that continuously monitors product prices on different websites and notifies users when a price drop or offer is detected.

The system collects pricing information using lightweight web scraping techniques and processes the extracted data to determine whether the current price meets the user's predefined threshold. If a match is found, the system instantly sends an email notification with the updated price and purchase link. All fetched prices are stored in an SQLite database to maintain a structured price history that can be used for basic trend observation. The application allows users to track products from multiple platforms using a single interface, eliminating the need to manually check each app repeatedly.

The project is developed using Python, BeautifulSoup, Requests, SQLite, and SMTP-based email services. It is designed to be simple, efficient, and suitable for mini-project development, while still demonstrating important concepts such as automation, data extraction, and real-time alerting. By providing quick, accurate notifications and reducing manual effort, the Multi-App Price Tracker and Notification System enhances user convenience and helps shoppers make more informed purchase decisions.

Keywords:

- Price tracking
- Web scraping
- Deal alerts
- Automation
- E-commerce monitoring

Domain: Machine Learning and Intelligent Automation

Method: Rule-based automation using Python, Web scraping techniques, Notification-based alerting

Technologies Used: Python, Requests, BeautifulSoup4, SQLite, SMTP email service, VS Code.

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