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## **AI-Powered Intelligent News Aggregator**

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Abstract: In the era of information overload, users face challenges in accessing reliable and timely news from multiple sources. This project presents a News Aggregator System designed to collect, categorize, and present news content from diverse websites in a centralized and user-friendly platform. The system automates the process of news gathering through web scraping techniques and RSS feeds, ensuring that users receive the latest updates without manually visiting each news outlet. The architecture leverages Python-based scraping tools and Natural Language Processing (NLP) techniques for text analysis, keyword extraction, and sentiment classification. The application categorizes news into various segments such as politics, sports, technology, business, and entertainment, providing a personalized and streamlined reading experience. A clean graphical user interface enables users to easily navigate, search, and filter news based on their preferences. To enhance credibility, the system highlights the source and timestamp of each article and avoids duplicate entries through content hashing mechanisms. It also includes features such as trending topics, real-time updates, and multi-language support to cater to a global audience. The News Aggregator not only minimizes information fatigue but also improves digital literacy by exposing users to diverse viewpoints. This project showcases the integration of automation, data mining, and user-centric design to revolutionize the way news is consumed in the digital age.

Keywords: News Aggregator, Web Scraping, Natural Language Processing, Real-Time News





