Business News Processor

Overview

This Streamlit app fetches and processes business news from multiple RSS feeds. It identifies relevant companies, tags alerts, analyzes sentiment, and extracts keywords from news articles. The app provides a user-friendly interface to view processed news items.

Features

- Fetches news from 19 different business and technology RSS feeds
- Processes news to identify mentioned companies from a predefined list
- Tags news with relevant alerts from a comprehensive set of business and tech categories
- Performs sentiment analysis on news articles
- Extracts key words from each news item
- Displays processed news in an easy-to-read format

Installation

1. Clone this repository:

```
git clone https://github.com/Mountain311/business-news-processor.git
cd business-news-processor
```

2. Create a virtual environment (optional but recommended):

```
python -m venv venv
source venv/bin/activate  # On Windows, use `venv\Scripts\activate`
```

3. Install the required packages:

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

4. Download the spaCy English model:

```
python -m spacy download en_core_web_sm
```

Usage

1. Run the Streamlit app:

```
streamlit run news_proc.py
```

2. Open your web browser and go to the URL displayed in the terminal (usually
   `http://localhost:8501`).

3. Click the "Fetch and Process News" button to start processing the latest news.

4. View the processed news items, including titles, companies mentioned, alerts, sentiment, and
   keywords.

Customization

- To modify the list of tracked companies or alerts, edit the `companies` and `alerts` lists in the
  `news_proc.py` file.
- To add or remove RSS feeds, update the `rss_feed_urls` list in the `run_news_processor` function.

Dependencies

- streamlit
- requests
- beautifulsoup4
- spacy
- nltk
- scikit-learn
- textblob