News Summarization & Hindi Text-to-Speech Application

Overview:

This project extracts the latest news articles related to a given company, performs sentiment analysis, and

the summarized content into Hindi speech using text-to-speech (TTS). The web-based application allows u

to input a company name and receive a structured sentiment report with an audio output.

Features:

- News Extraction: Fetches at least 10 unique articles related to the given company.

- Sentiment Analysis: Categorizes each article as Positive, Negative, or Neutral.

- Comparative Analysis: Provides insights on how news coverage varies.

- Hindi Text-to-Speech (TTS): Converts the sentiment summary into Hindi audio.

- User-Friendly Interface: Uses Streamlit for a simple and interactive UI.

- REST API Integration: Uses Flask to fetch news, analyze sentiment, and generate TTS.

Installation & Setup:

1. Clone the Repository:

   git clone <your-repo-link>

   cd <your-repo-folder>

2. Install Dependencies:

   pip install -r requirements.txt

3. Run the Backend API:

   python api.py

4. Start the Web Application:

```
streamlit run app.py
```

API Endpoints:

Endpoint	Method	Description	Example
/news	GET	Fetches news articles for a company	/news?company=Tesla
/tts	GET	Generates Hindi TTS audio for summary	/tts?company=Tesla

Example Output:

Input:

{ "Company": "Tesla" }

Output:

{ "Company": "Tesla", "Articles": [...], "Final Sentiment Analysis": "Teslas latest news coverage is mostly p