NEWS SENTIMENT ANALYZER

Introduction:

Nowadays, we see a lot of news online, and it can be hard to know what people think about companies. This project, called News Sentiment Analyzer, helps us understand if the news about a company is mostly positive, negative, or neutral. It uses AI and has a simple interface that anyone can use.

Abstract:

This is a web app that fetches the latest news about a company, checks the mood (sentiment) of each article using an AI model, and shows the results in a colorful chart. It also speaks a short summary in Hindi using a translator and text-to-speech. The app runs online using Hugging Face Spaces and is easy to use.

Tools Used:

* Python for programming
* Streamlit to build the app interface
* DistilBERT model for sentiment analysis
* Google News RSS for getting news
* Matplotlib to draw the chart
* gTTS to convert text to Hindi audio
* Deep Translator for English to Hindi translation
* Hugging Face Spaces to host the app

Steps Involved:

1. Collect News: - The app collects the latest news using Google News RSS when a user enters a company name.

2. Analyze Sentiment: - The news is checked using the AI model to find if it is positive, negative, or neutral.

3. Show Results: - A bar chart shows how many articles are in each category (positive, negative, neutral).

4. Speak Hindi Summary: - The app creates a short summary in Hindi and reads it aloud using AI tools.

5. Deploy Online: - The app is uploaded to Hugging Face Spaces, so anyone can use it from a browser.

Conclusion:

This project shows how we can use AI to understand news better. It is useful for people who want to follow company news and know what others think. It also supports Hindi audio to make it easier for more people to use. End of Simple Report