





Team Name: Team 5

Problem Statement: The project addresses the need for a 360-degree feedback software for monitoring Government of India-related news stories in regional media using Artificial Intelligence and Machine Learning.

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Team Member 1: BADUGU AJAY

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Team Membef 3: CHIPPALA HARI KUMAR



# SOLUTION:

01

### Automated Data Collection:

- Develops a system to scrape news articles and videos from multiple sources, including websites, e-newspapers, and YouTube channels.
- Extracted data is processed to identify key details like headline, content, publication date, and source URL.

02

### Categorization and Sentiment Analysis:

- Classifies articles based on the ministry's jurisdiction using an accurate machine learning model.
- Performs sentiment analysis (Positive, Neutral, or Negative) for actionable insights.

03

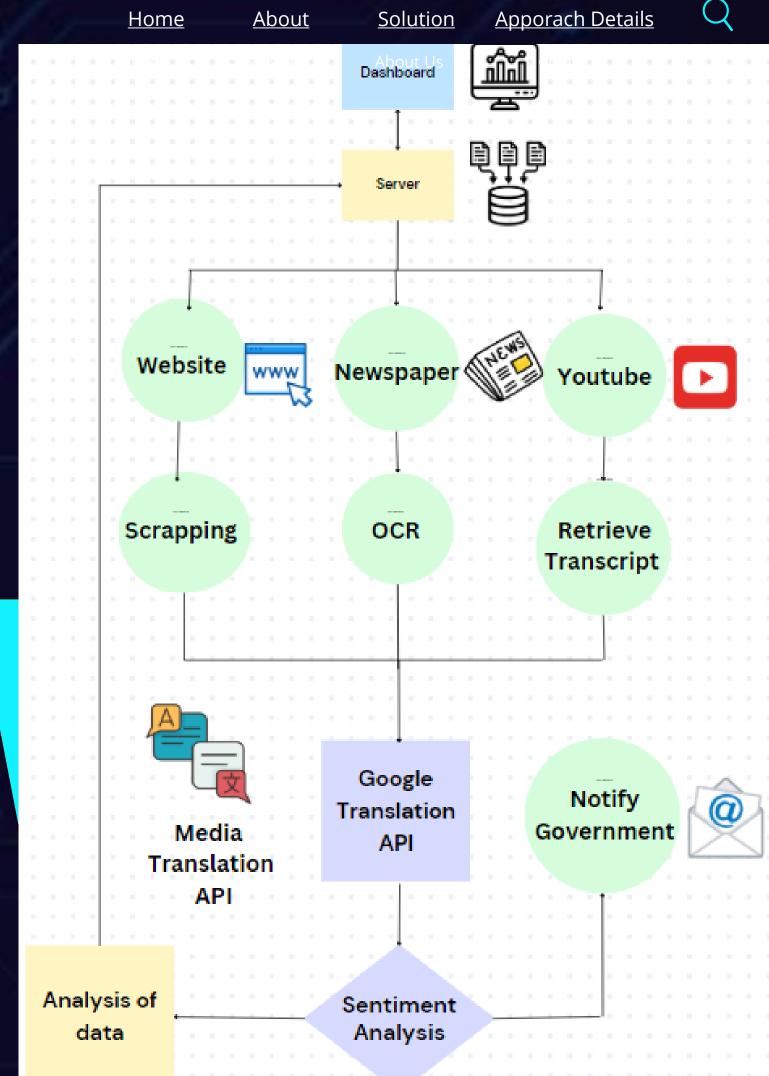
#### Real-Time Alerts and Notifications:

- Sends alerts for negative news articles to respective government departments via email for immediate response.
- Provides timely updates on critical news events.

04

### User-Friendly Interface:

- Displays news on a simple and intuitive dashboard that supports multiple languages (English, Hindi, and regional languages).
- Offers features like manual refresh, automatic hourly updates, and easy filtering by sentiment and ministry.



- Crawled 12000+ news articles and videos using Python Beautiful Soup and Selenium Library.
- Applied clustering on these articles to label them into different categories to prepare labeled dataset.
- Trained this dataset of articles using BERT model to generate department predictions.
- implemented sentiment analysis on news articles.
- Sending mail of Negative News to respective departments using NodeMailer and Gmail - SMTP
- Integrated this model and crawling functionality with a Django backend and wrote APIs for generating predictions and sentiments.
- Merged this backend with a simple and attractive UI where user can give triggers to load latest news articles with their analysis.

- Home About Solution
- <u>Apporach Details</u>
- Implemented video news analysis using Selenium library by first extracting audio and converting it into text. Then applied classification and sentiment analysis on the extracted text.
- Developed the same functionalities for news in Telugu, Hindi and others languages as well using Google Translate API.

### Technology Stack:

- AI: PyTorch, TensorFlow, and BERT libraries for creating ML models.
- Crawling: Beautiful Soup,
  Selenium
- Server: Django backend.
- Frontend: HTML, CSS, JavaScript.



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Home

<u>About</u>

Solution

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Q

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### **Exposed DeepSeek Database Revealed Chat Prompts**

China-based DeepSeek has exploded in popularity, drawing greater scrutiny. Case in point: Security researchers found more than 1 million records, including user data and API keys, in an open database.

#### MOST RECENT



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Harish Kumar and panel members



IT minister Hari Kumar

Privacy issue with china's DeepSeek



IND vs ENG, 3rd T201

Kevin Pietersen slams India's batting order after Rajkot loss



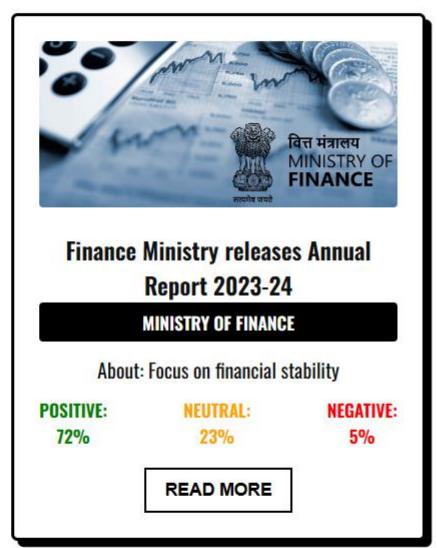
China's Al DeepSeek

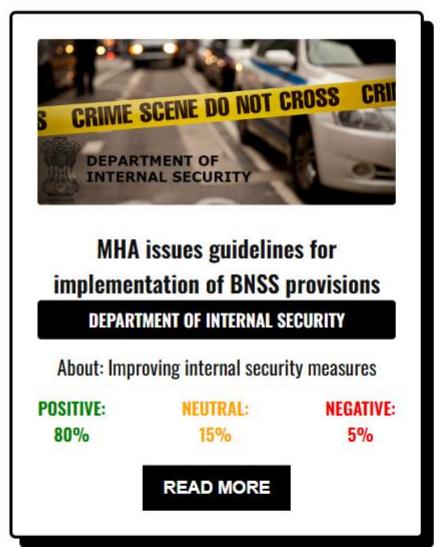
DeepSeek tech wipeout erases more than \$1 trillion in market cap

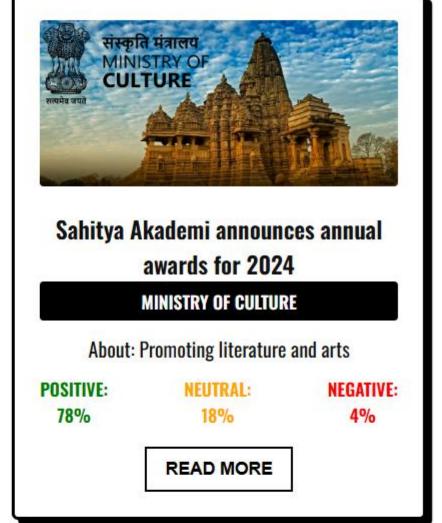
# SENTIMENT ANALYSIS

### LATEST ARTICLES IN ENGLISH ~











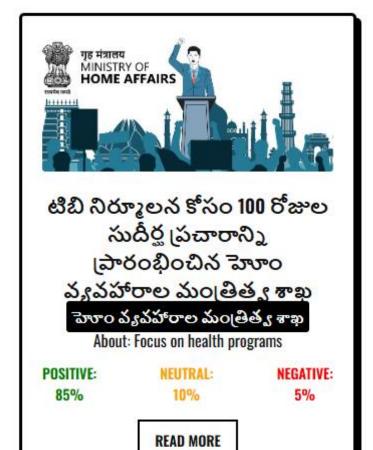


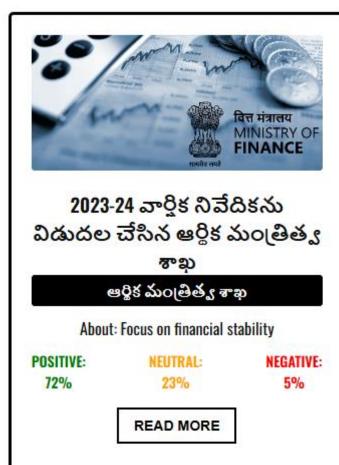


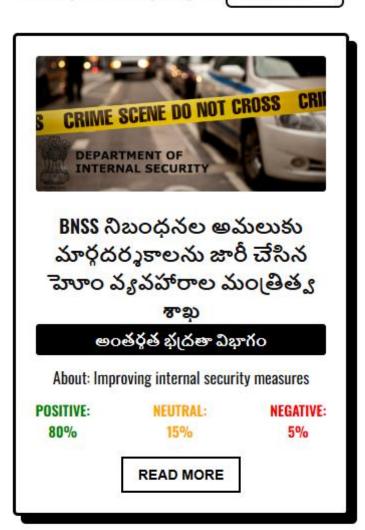


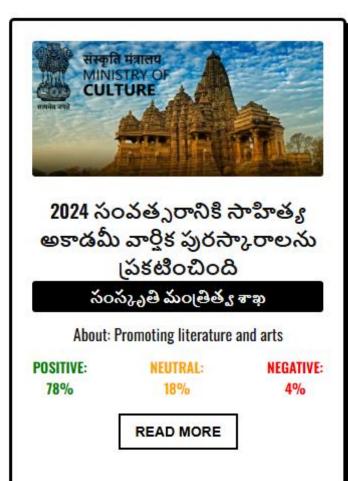
## MULTI LANGUAGE:

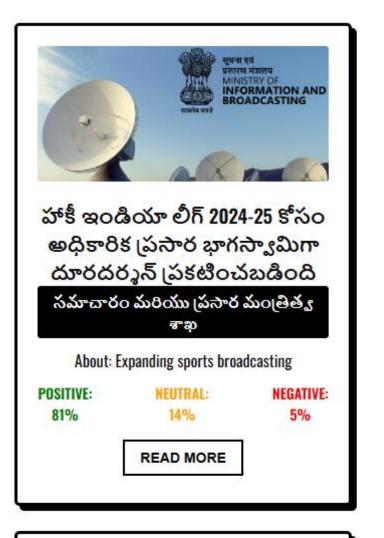
### LATEST ARTICLES IN TELUGU ~













జపాన్తో ద్వైపాక్టిక సంబంధాలను బలోపేతం చేసిన భారతదేశం



ఏఐ ఆధారిత ఇ-ఫైలింగ్ వ్యవస్థను ప్రారంభించిన స్ముపీం



తిరిగి ఉపయోగించగల స్పేస్ ವಾಪಾನಾನ್ನಿ ವಿಜಯವಂతಂಗಾ పరీక్షించిన భారతదేశం



అండర్-19 ప్రపంచ కప్ గెలిచిన భారత క్రకికెట్ జట్టు యువ వ్యవహారాలు మరియు క్రోడల



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Positive:

Neutral: 20%

Negative: 20%

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