

The background of the page features a detailed circuit board pattern in shades of blue and teal, creating a high-tech, electronic feel.

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TEAM - 5

TEAM AND PROBLEM STATEMENT

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.

Team Lead: ATLA HARSHA VARDHAN

Team Member 1 : BADUGU AJAY

Team Member 2 : ARETI HIMA PADMAVATHI

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

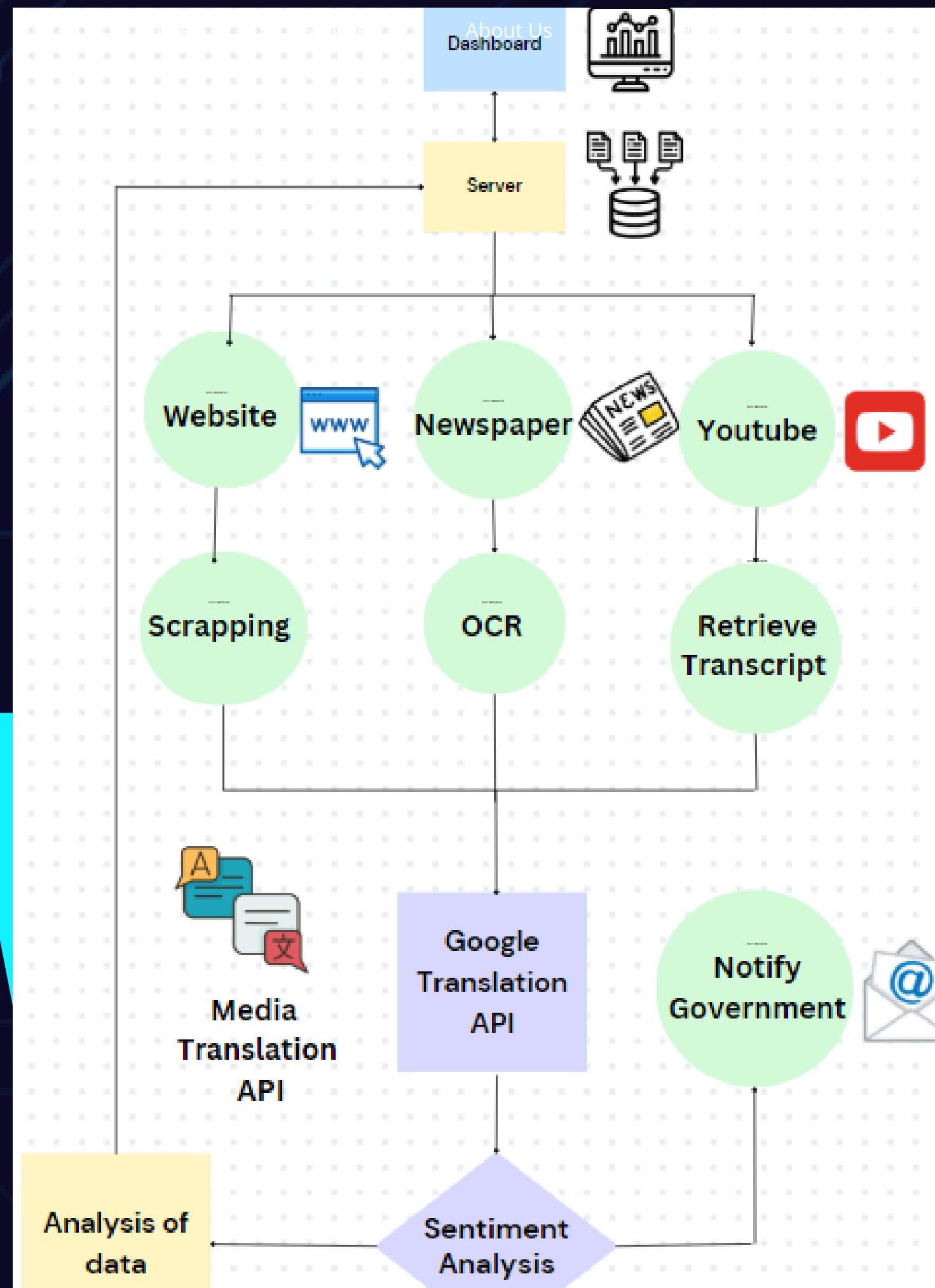
Real-Time Alerts and Notifications:

- 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.





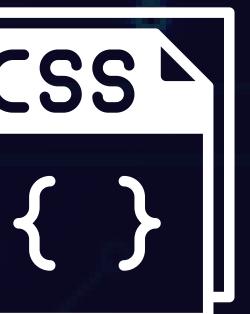
Approach details :

- 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.

- 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:** BeautifulSoup, Selenium
- **Server:** Django backend.
- **Frontend:** HTML , CSS, JavaScript .



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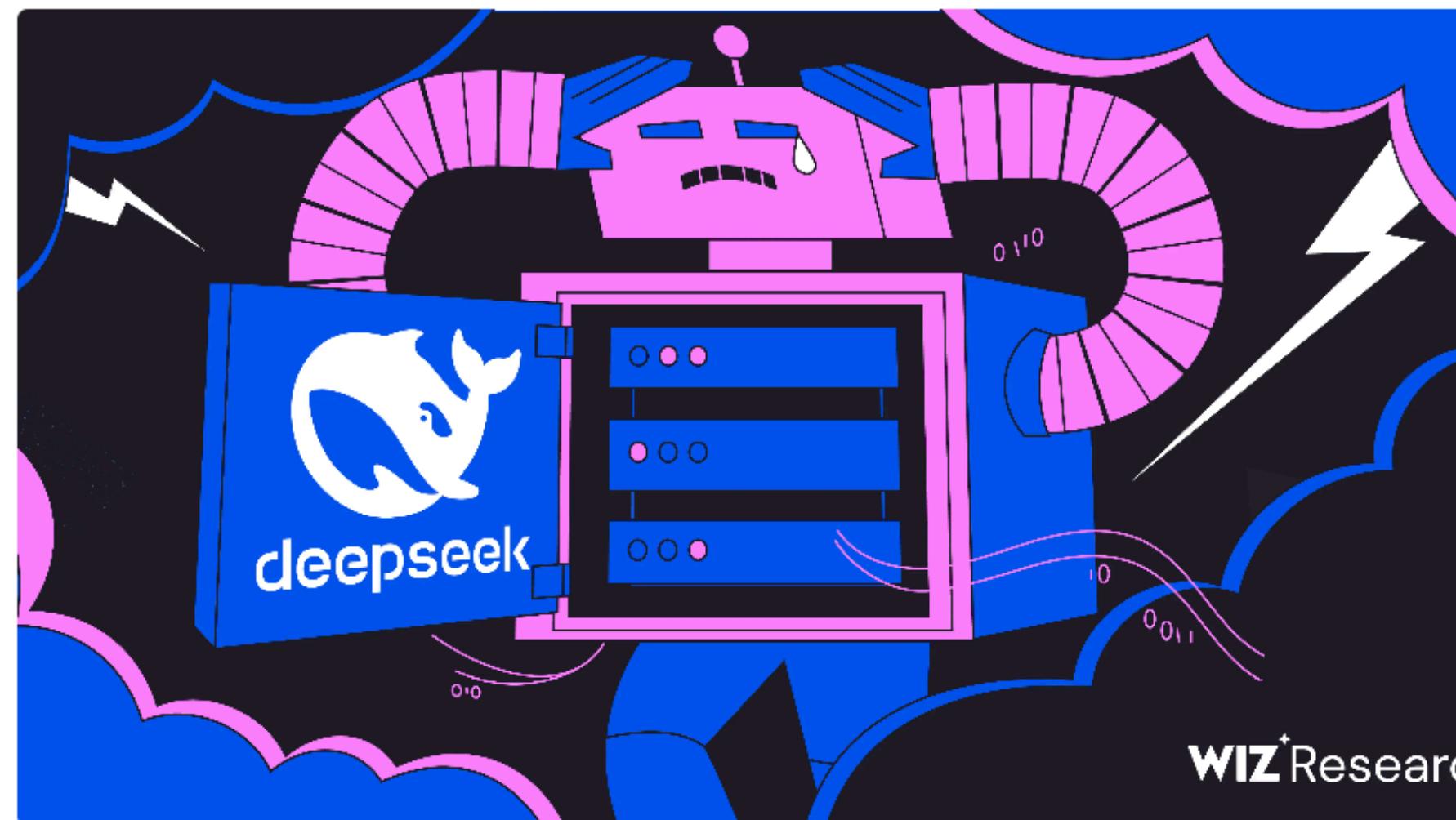
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Trump Says US Is 'In Mourning' After No Survivors From Plane Crash



Nothing Phone 3a Series

India Launch Date Set for March 4; Flipkart Availability Confirmed



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.

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Harish Kumar and panel members



IT minister Hari Kumar

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China's AI DeepSeek

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SENTIMENT ANALYSIS

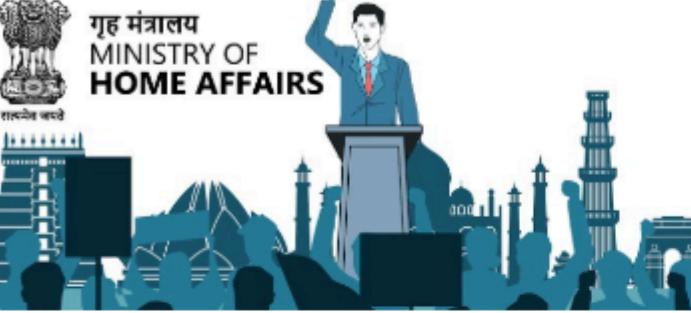
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About: Focus on health programs

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MINISTRY OF FINANCE



Finance Ministry releases Annual Report 2023-24

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DEPARTMENT OF INTERNAL SECURITY



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विधि और न्याय मंत्रालय
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LATEST ARTICLES IN TELUGU



गृह मंत्रालय
MINISTRY OF HOME AFFAIRS
सरकारी चालौ



టెబి నిర్మాలన కోసం 100 రోజుల
సుదీర్ఘ ప్రచారాన్ని
ప్రారంభించిన హైసం
వ్యవహారాల మంత్రిత్వ శాఖ
హైసం వ్యవహారాల మంత్రిత్వ శాఖ

About: Focus on health programs

POSITIVE: 85%	NEUTRAL: 10%	NEGATIVE: 5%
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MINISTRY OF FINANCE
सरकारी चालौ



2023-24 వార్షిక నివేదికను
విడుదల చేసిన ఆర్థిక మంత్రిత్వ శాఖ
ఆర్థిక మంత్రిత్వ శాఖ

About: Focus on financial stability

POSITIVE: 72%	NEUTRAL: 23%	NEGATIVE: 5%
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DEPARTMENT OF INTERNAL SECURITY



BNSS నిబంధనల అమలుకు
మార్గదర్శకాలను జారీ చేసిన
హైసం వ్యవహారాల మంత్రిత్వ శాఖ
అంతర్గత భద్రతా విభాగం

About: Improving internal security measures

POSITIVE: 80%	NEUTRAL: 15%	NEGATIVE: 5%
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संस्कृతि मंत्रालय
MINISTRY OF CULTURE
सरकारी चालौ



2024 సంవత్సరానికి సాహిత్య
అకాడమీ వార్షిక పురస్కారాలను
ప్రకటించింది

About: Promoting literature and arts

POSITIVE: 78%	NEUTRAL: 18%	NEGATIVE: 4%
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సూచనా శాఖ
ప్రసాధన మంత్రాలయ
MINISTRY OF INFORMATION AND BROADCASTING
సరకారీ చాలौ



హోకీ ఇండియా లీగ్ 2024-25 కోసం
అధికారిక ప్రసార భాగస్వామిగా
దూరదర్శన ప్రకటించబడింది

About: Expanding sports broadcasting

POSITIVE: 81%	NEUTRAL: 14%	NEGATIVE: 5%
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विदेश मंत्रालय
MINISTRY OF EXTERNAL AFFAIRS
सरकारी చాలौ



జపాన్తో ద్వేషాక్షిక
సంబంధాలను బల్చేతం
చేసిన భారతదేశం



विधి ఔరంగా మంత్రాలయ
MINISTRY OF LAW & JUSTICE



ఏక ఆధారిత ఇ-ఫ్లైటింగ్
వ్యవస్థను ప్రారంభించిన సుప్రీం
కోర్టు



विज్ఞాన ఏర్పాత్మకమైన మంత్రాలయ
MINISTRY OF SCIENCE AND TECHNOLOGY
సరకారీ చాలौ



తిరిగి ఉపయోగించగల స్పేస్
వాహనాన్ని విజయవంతంగా
పరీక్షించిన భారతదేశం



యువా కార్యక్రమ
ఏర్పాత్మక మంత్రాలయ
MINISTRY OF YOUTH AFFAIRS AND SPORTS
సరకారీ చాలौ



ఆండర్-19 ప్రపంచ క్వోల్ గలిచిన
భారత క్రికెట్ జట్టు
యువవ్యవహారాలు మరియు క్రీడల



ఇంజనీరింగ్ శాఖ
సూచనా శాఖ
ప్రసాధన మంత్రాలయ
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
సరకారీ చాలौ



జాతీయ సైబర్ భద్రతా
వ్యాహాన్ని ప్రవేశపెట్టిన
భారతదేశం

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Negative:
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Negative:
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