



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)

DEPARTMENT OF COMPUTER ENGINEERING

NLP MINI PROJECT

TOPIC : NEWS SUMMARIZER and ANALYZER

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Problem statement

In the current world situation when there is a rapid increase in the technology, the data on the World Wide Web is increasing on a tremendous rate.

However due to the hectic schedule of the people and an intense amount of news available on various different websites it becomes difficult for people to be daily updated with the knowledge of the surroundings.

Also as web is getting developed on a daily basis the news which might get surfaced on the web may not provide an overview of the news .

We are not able to analyze what news should be read.

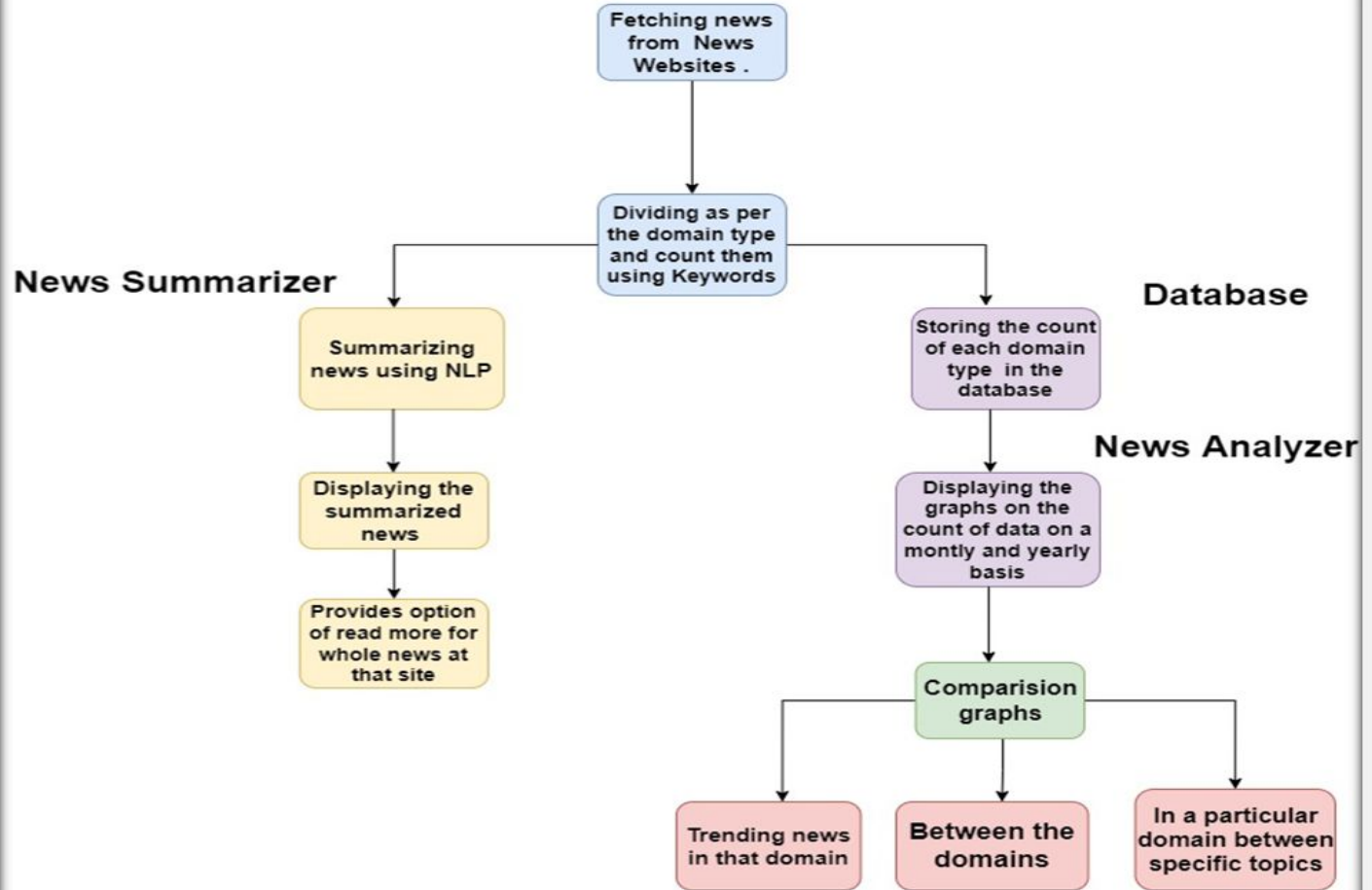
OBJECTIVE

- 1.To extract data from a News Website.**
- 2.To categorize the news as per the domains.**
- 3.To provide summarize content of the news**
- 4.To provide the analyzed news in the form of graphs, charts along with categories.**

Scope

- 1.To extract data through news Website**
- 2. Segregating that news as per the Domain**
- 3. Extracting the domain data count for summarization and analyzation**
- 4. To store that count of the domain data in the database**
- 5. Summarizing the news and displaying them**
- 6. After summarization is done then Extracting the domain data count from database for analyzing.**
- 7.Then as per category displaying that data in graphical representations**

Flow Chart:



Implementation Technology

- Html 5/CSS 3/ - frontend
- Python 3.10 - backend
- NLP
- Plotly
- Application connected via: News Website
- Database: MySQL

Methodology :

- 1. Extracting news from NDTV News website.**
- 2. Fetching news using RSS Feed.**
- 3. Segregating the news based on different domains i.e., sports, technology, etc.**
- 4. Summarizing the news using NLP.**
- 5. After summarization we perform analysis on the news.**
- 6. For performing analysis we store the news count of all the domains.**
- 7. The news count of domains is stored in the database with the help of keywords.**
- 8. Once the count got stored in the database, we converted it into csv file for performing analysis.**
- 9. Analysis part was implemented by using Plotly.**
- 10. By using plotly we generated pie charts for all the domains and also a line graph that will represent the weekly analysis of news.**

Interfaces :

NewsIn: A News Summarizer and Analyzer



Line Graph




Select your Category

--Select--

Please select Type!!

Select your Category

Favourite  Topics

Choose your favourite Topic

Choose your favourite Topic

WORLD

Number of News:

5

5

15

World



- 2022-09-13T00:00:00
- 2022-09-23T00:00:00
- 2022-10-02T00:00:00
- 2022-10-06T00:00:00
- 2022-09-20T00:00:00
- 2022-10-08T00:00:00
- 2022-09-14T00:00:00
- 2022-09-18T00:00:00
- 2022-09-24T00:00:00
- 2022-09-27T00:00:00
- 2022-09-30T00:00:00
- 2022-10-03T00:00:00
- 2022-10-09T00:00:00
- 2022-09-16T00:00:00

(1) Scared, Without Food, No Place To Go: Thousands Flee As Israel Pounds Gaza



Scared, Without Food, No Place To Go: Thousands Flee As Israel Pounds Gaza



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(2) Iran Funding Hamas Operations, Says Israel's Representative At UN





Iran Funding Hamas Operations, Says Israel's Representative At UN

Israel has launched a massive counterattack at Gaza Strip after the Hamas attackIran has been funding the Hamas group's operations, Israel's envoy to the UN said today amid the war with Palestine that started after Hamas launched its biggest attack on Israel from the Gaza Strip. Israel's representative to the UN Gilad Erdan said they are quite sure that Iran has been backing Hamas' operations and by extension the terrorist attack on Saturday morning that left over 600 Israelis dead and thousands injured. "Iran supports the legitimate defence of the Palestinian nation," Mr Raisi said, quoted by state television. He urged Muslim governments to "support the Palestinian nation" while praising "resistance" efforts by Hamas and other groups in countries including Syria, Lebanon and Iraq. Iran had talks with leaders of Hamas and Islamic Jihad in June."

A blackboard with a wooden frame is centered on a rustic wooden surface. The words "Thank You" are written in white, serif, all-caps font. To the bottom left is a portion of an orange rotary telephone. To the top right is a green leaf and a portion of a vintage typewriter.

Thank
You