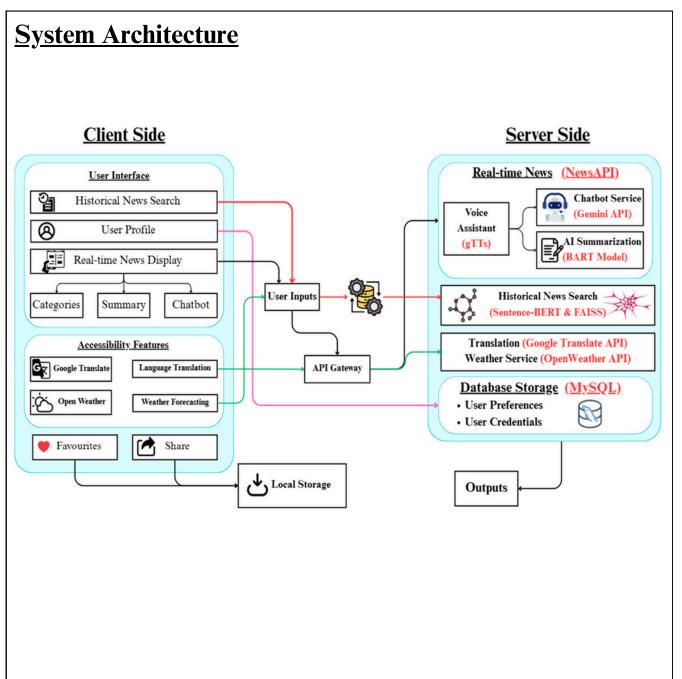
# SmartNews Al: Real-Time News and Personalized Chat Experience using NLP

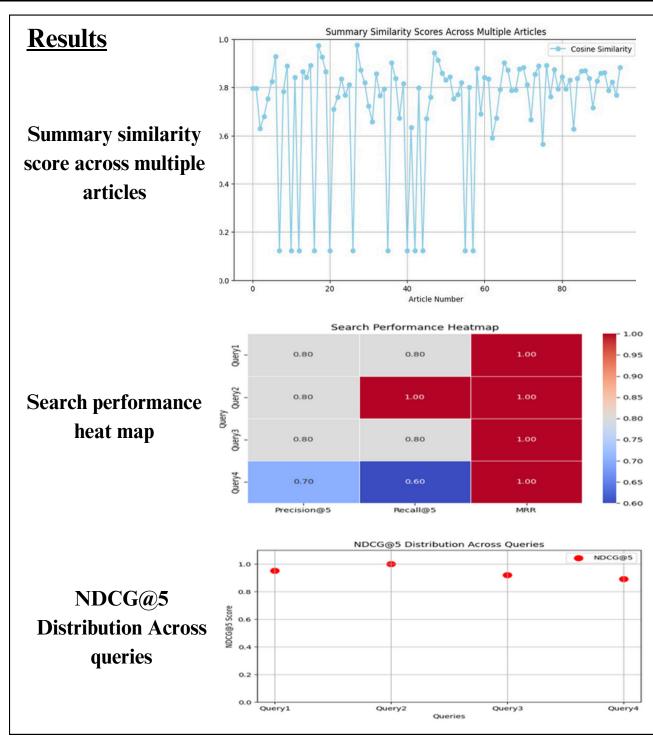
## **Problem Statement**

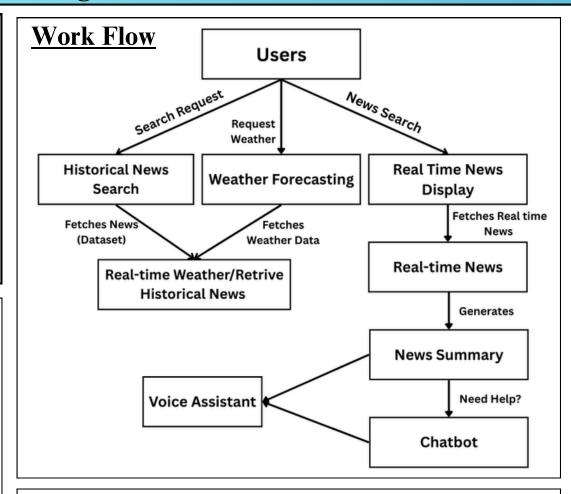
Most of the existing news platforms lack AI-powered summarization, interactive Q&A, and multilingual support, making it difficult for users to quickly understand and engage with news content efficiently.

### **Objectives**

- To provide concise and accurate news summaries, utilizing the BART model.
- To enable Q&A and voice responses, leveraging Gemini API and Google Text-to-Speech.
- To ensure fast historical news search, integrating Sentence-BERT (all-MiniLM-L6-v2) and FAISS.
- To deliver real-time news, using News API with multilingual translation (GTranslate API) and weather updates(OpenWeather API).







#### **Key References**

- [1] V. Alwis, "Intelligent E-news Summarization" 2018 18th International Conference on Advances in ICT for Emerging Regions, (ICTer) Colombo, Sri Lanka, 2018. [https://ieeexplore.ieee.org/document/8615590].
- [2] G. Bharti, A. Ranjan, A. Bharat, and S. Yadav, "Design and Development of an Efficient and Intelligent Weather Forecasting App" (IOS Press) Punjab, India, 2023.

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[3] P. Sethi, S. Sonawane, S. Khanwalker, and R. B. Keskar, "Automatic Text Summarization of News Articles," 2017 International Conference on Big Data, IoT and Data Science (BID), Pune, India, 2017. [https://ieeexplore.ieee.org/document/8336568].

#### **Conclusion**

Smart News revolutionizes news with AI summaries, Q&A, historical search, and real-time updates with multilingual support and weather forecasts, it ensures a seamless, personalized experience.