



# INDIA INTERNATIONAL SCIENCE FESTIVAL 2023



# SPACE HACKATHON

In Association with



राष्ट्रीय नवप्रवर्तन प्रतिष्ठान – भारत  
National Innovation Foundation - India



**Team Name: Turing Titans**

**Name of College/University: Netaji Subhas University of Technology, Delhi**

**Team Member Details:**

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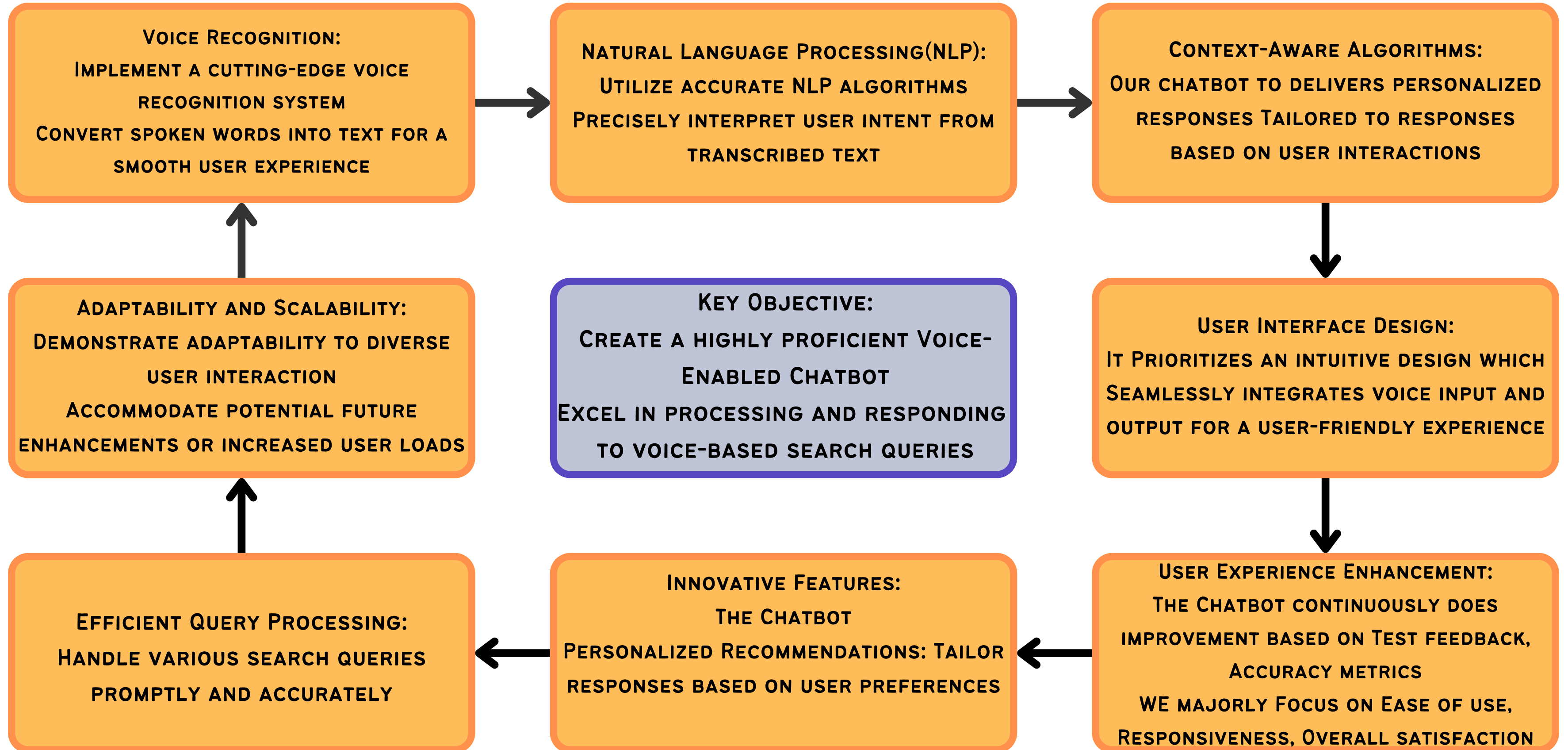
# Problem Statement: Voice-Activated Search Assistant: Revolutionizing Query Resolution through Conversational AI

*A small brief about our approach and the understanding of the problem statement:*

- Develop **Voice-Activated Search Assistants** and **Conversational AI** for seamless information retrieval.
- Create a **smart chatbot** proficient in recognising and **responding to voice queries effectively**.
- Design a **simple interface optimized for voice commands**, ensuring **user-friendly interaction**.
- Enable the chatbot to swiftly and **accurately address** various types of questions.
- Implement **Geospatial Data from Bhuvan Web Links** to enhance navigation and provide meaningful results.
- Ensure **adaptability** to diverse situations, **scalable** to handle increased user load, and **easily extensible for future features**.
- **Prioritise user-centric experiences**, offering **personalised results** based on **users' task history** within the chatbot.

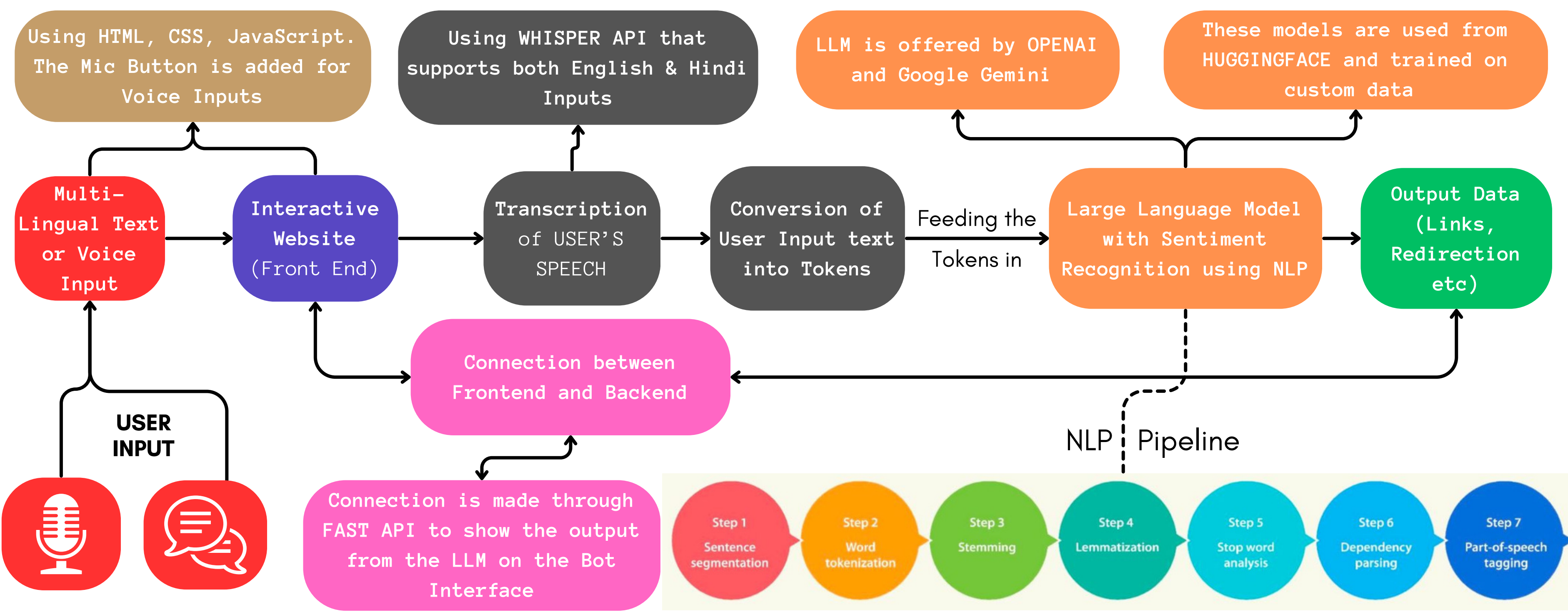


## Detailed Proposal & Solution Approach



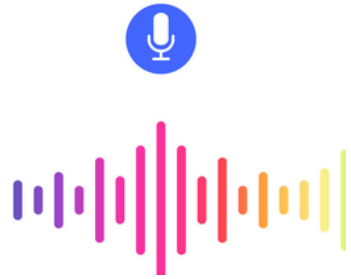


**Detailed Proposal & Solution Approach:** To handle this project, our team first studied the bot's model, design, and dataset. We believe in dividing the big problem into smaller parts and working on them simultaneously. This helps us create a well-rounded model with lots of abilities and a great design. Our whole process can be explained like this:





## Tools and Devices used on Development:



## References/Acknowledgement:

- [OpenAI Speech to Text](#)
- [Chatbot with LangChain, Transformers](#)
- [Transformers Documentation](#)
- [FAST API Documentation](#)
- [Langchain Documentation](#)
- [Hugging Face JS Libraries](#)
- [Whisper API Working](#)

## Technologies Involved:



## Project Link:

[BHUVAN.AI Voice Assisted Chatbot Deployment Link](#)

\*The links will redirect you the destination website



EXPECTED OUTCOME:

