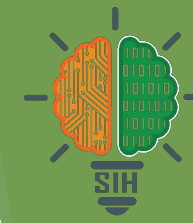


# SMART INDIA HACKATHON 2024



SMART INDIA  
HACKATHON  
2024

## Main Hackathon

**Problem Statement ID** - 1706

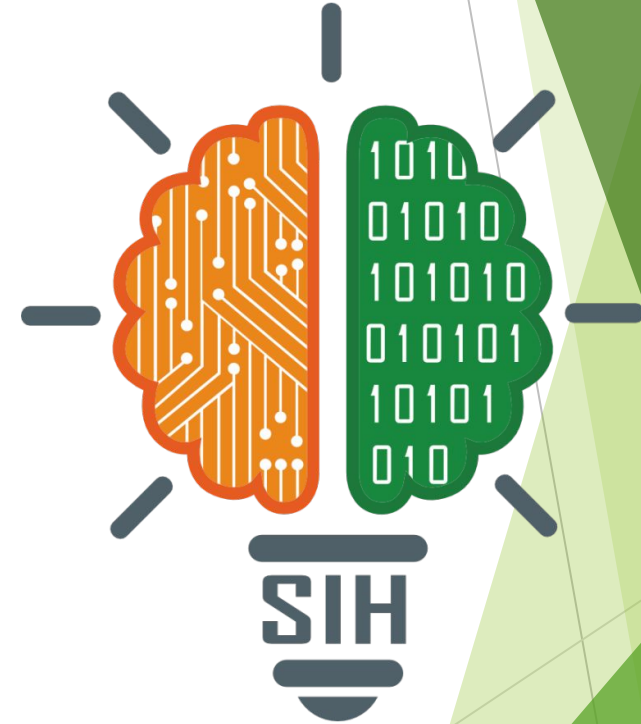
**Problem Statement Title** - Intelligent Enterprise Assistant:  
Enhancing Organizational Efficiency  
through AI-driven Chatbot Integration

**Theme** - Miscellaneous

**PS Category** - Software

**Team ID** - # 261 (as in excel sheet)

**Team Name** - DheetCoderz



*“ Intelligent Enterprise Assistant: Enhancing Organizational Efficiency through AI-driven Chatbot Integration ”*

## ❖ Proposed Solution

- **Hugging Face Transformers** for natural language understanding and processing. For chatbot implementation, **Rasa**.
- **Navana Tech's Bodhi API** for handling voice queries
- **SpaCy** and **PyMuPDF** for extracting and summarizing text from documents
- Pre-trained transformers like **BART** or **PEGASUS** for document summarization
- **TF-IDF** or **YAKE** for keyword extraction from documents.

## TECH-STACK USED



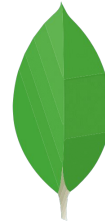
PYTHON



FLASK



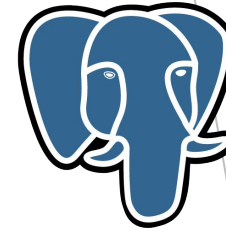
GRAFANA



MONGO-DB



PANDAS



POSTGRE-SQL



## LIBRARIES



NLTK

SPACY

NAVANA

RegEx

NVIDIA CUDA

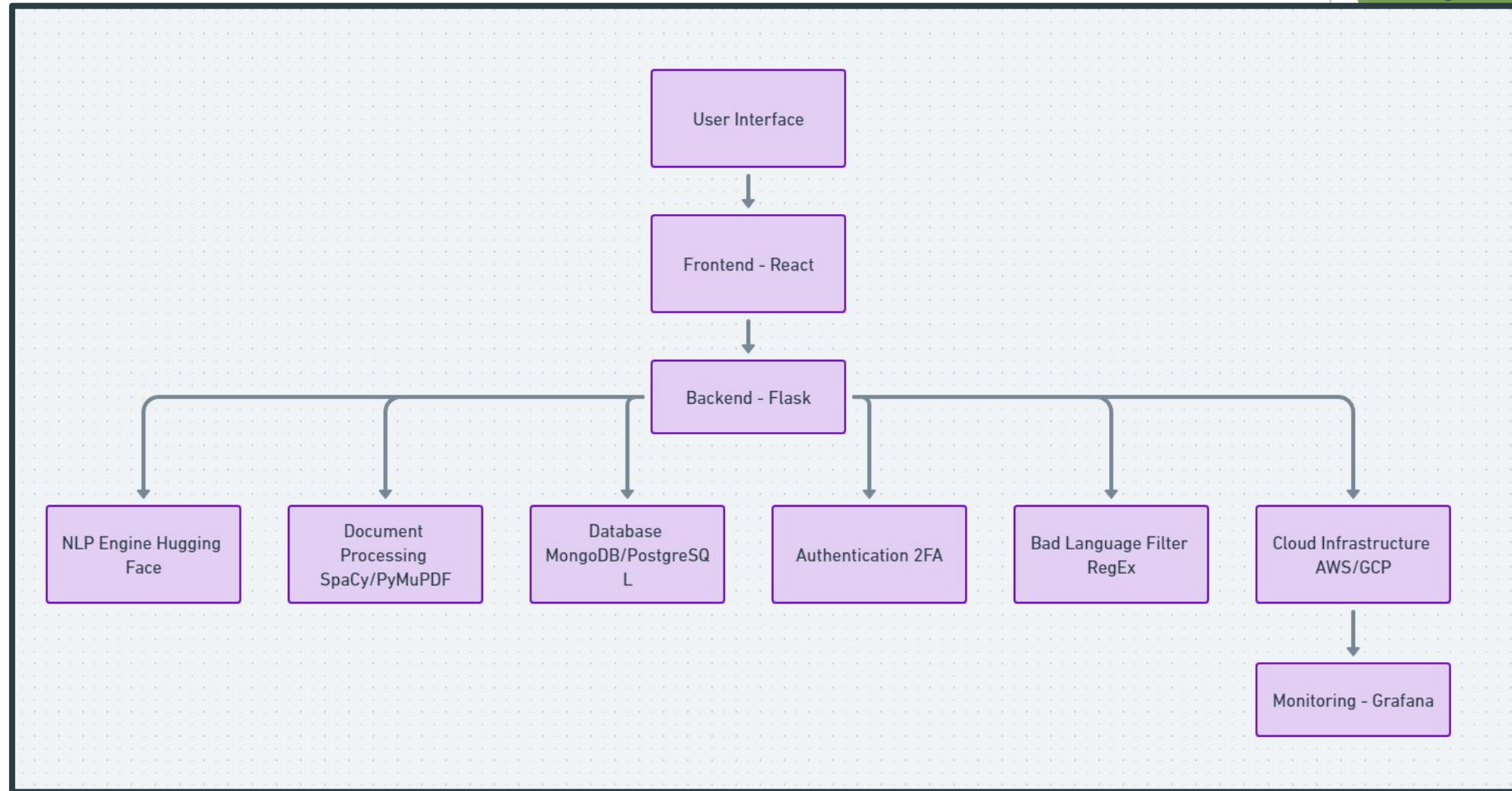
## FEASIBILITY AND VIABILITY

### Feasibility:

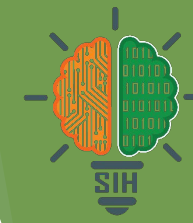
- **Technical Feasibility** : Hugging Face Transformers, Django/Flask, and Navana Tech Bodhi API, are readily available as open-source or commercial products
- **Time Feasibility** : The primary components—chatbot development, document processing, and security—can be developed in parallel to optimize time.

### Viability:

- **Market Demand** : Organizations increasingly rely on AI-driven solutions to enhance efficiency.
- **Return on Investment** : Chatbot could automate routine tasks, reduce human error, and improve response times, leading to cost savings in HR, IT support, and general administration.



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Thank  
you