



Basic Details of the Team and Problem Statement

Ministry/Organization Name/ Student Innovation :
Ministry of Commerce and Industries

PS Code: SIH1357

Problem Statement Title:
Sentiment analysis of Social Media presence

Team Name: UNISOLVE

Team Leader Name: KAUSIK D

Institute Code (AISHE): C-16537

Institute Name: St. Joseph's College of Engineering

Theme Name: Miscellaneous

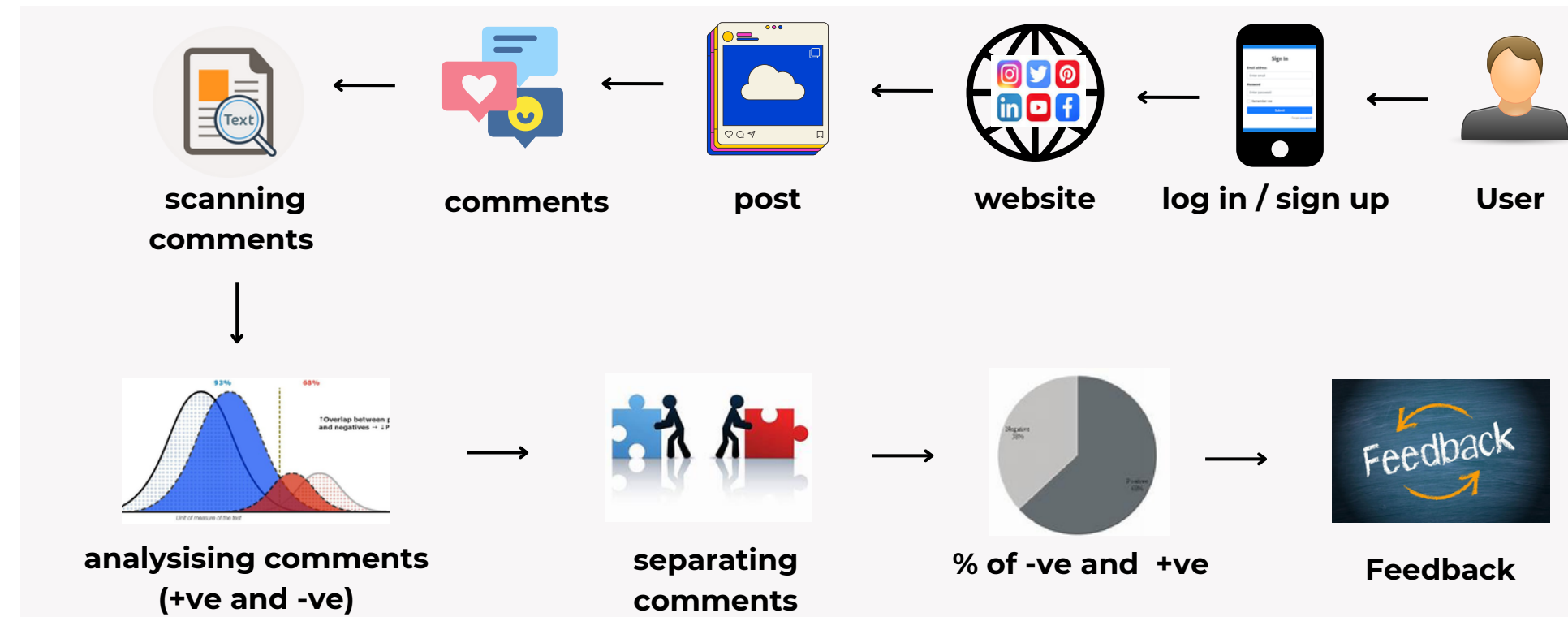
Idea/Approach Details

- ✦ The idea is to develop an application which crawls through the major social medias like Instagram, Twitter, Threads.
- ✦ It uses variouss ML and NLP algorithms to analyse the sentiment of the given individual or an organization.
- ✦ The user has to provide certain details like their Instagram account , twitter page , then the application gets the comments and reaction from the posts.
- ✦ These comments are further classified based on whether they are +ve or -ve to give feedback on the sentiment of the post or topic.

Additional features

- ✦ Multilingual support and real-time scanning.
- ✦ Trend forecasting and analysis which provides valuable insights for the organization where to invest resources and efforts.
- ✦ The sentiment is categorised based on their location to check for their perception in that area.

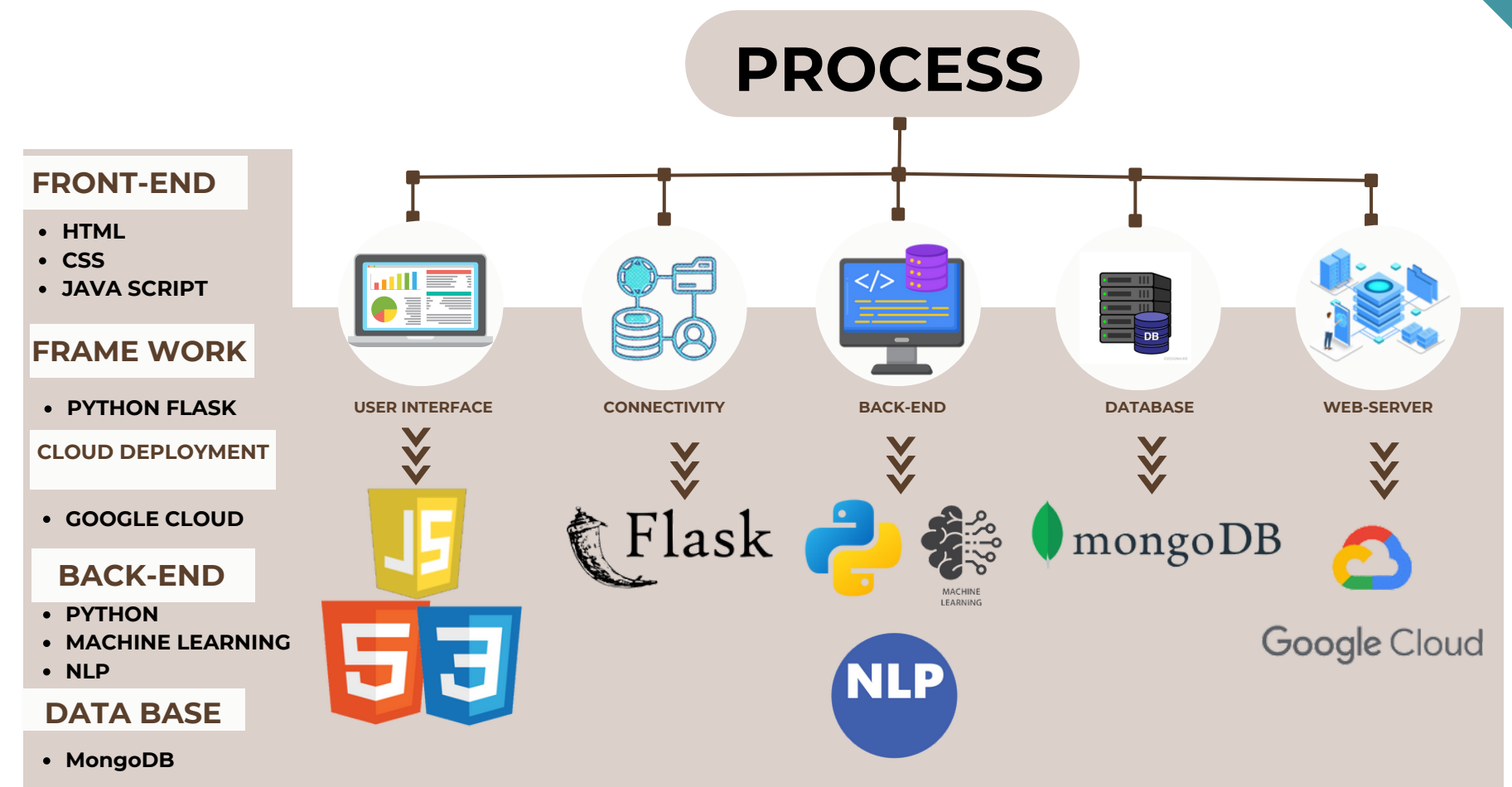
Work Flow



Use Case Diagram

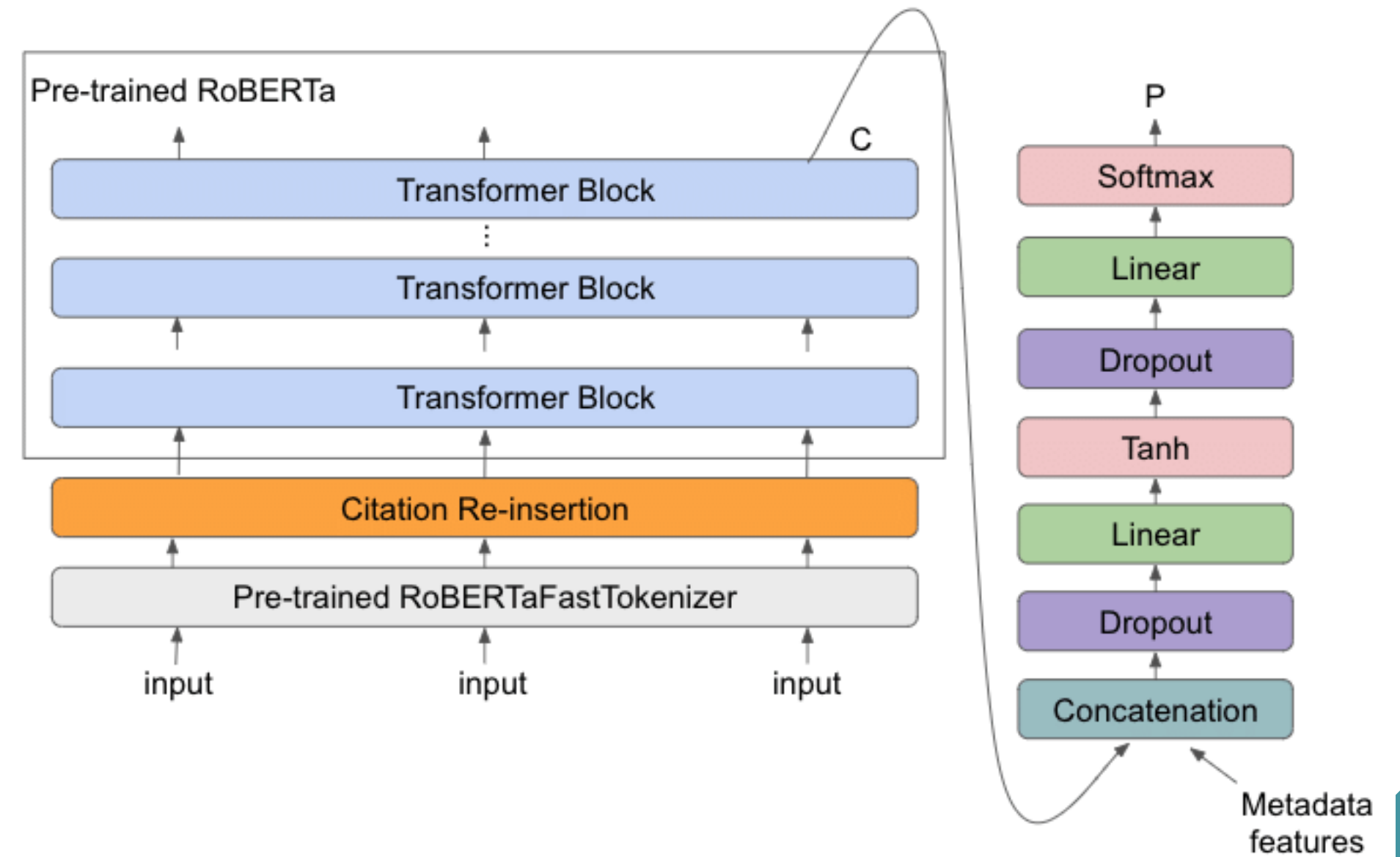


Dependencies

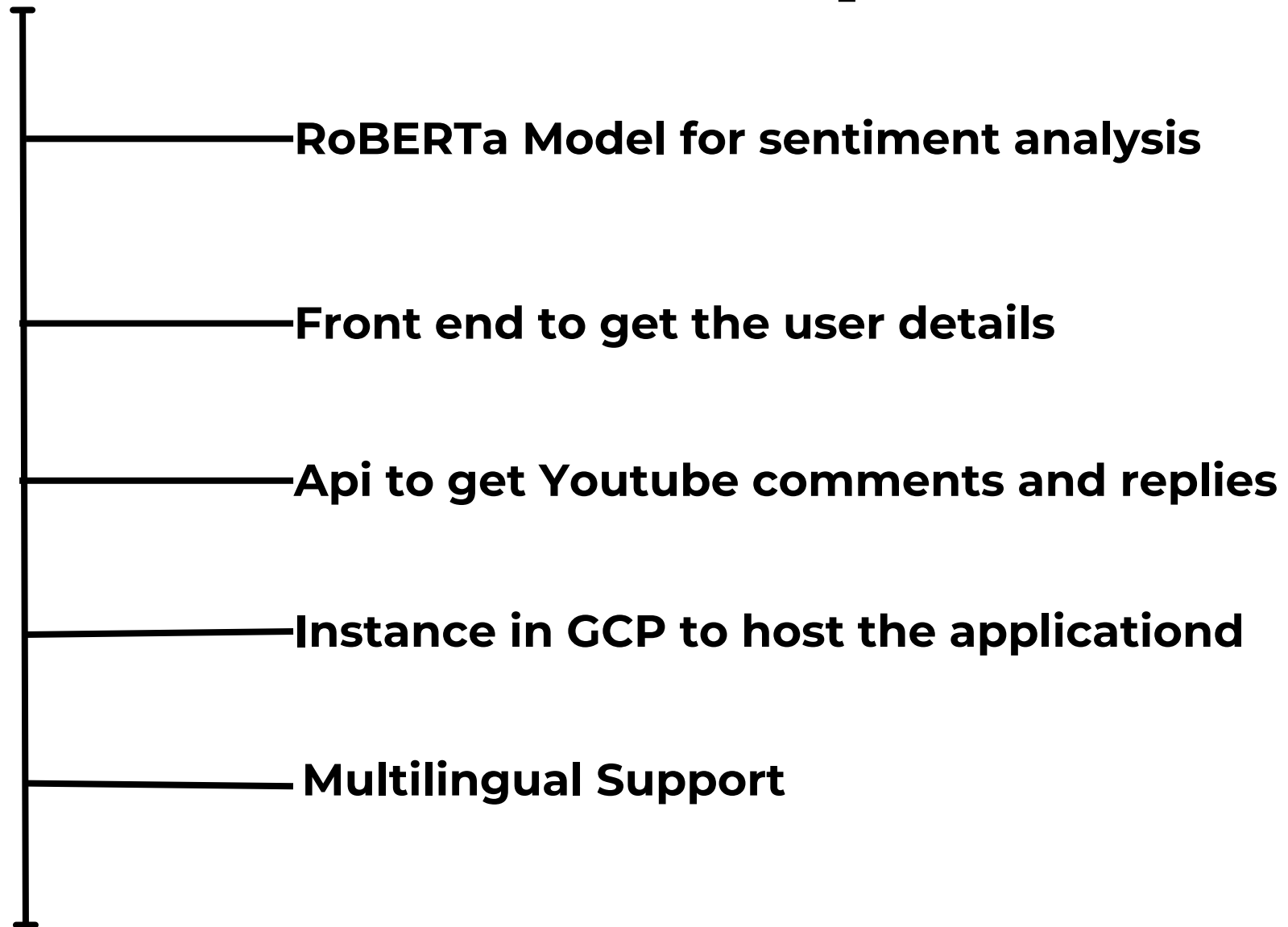


RoBERTa :

- RoBERTa is a large language model developed by Google AI, trained on a colossal corpus of text and code.
- BERT stands for bidirectional encoder representation from transformers model, with several key improvements that make it more robust and accurate than its predecessors.
- RoBERTa is built on top of BERT and has proved to outperform BERT on sentiment analysis, a natural language processing (NLP) task that involves identifying the emotional tone of a piece of text.
- On the popular SST-2 benchmark dataset, RoBERTA achieves an accuracy of 93.0%, which is significantly higher than the 92.9% accuracy achieved by BERT.



Progress as of 19th September



Currently Working on



Scraping tweets and its corresponding data (Due to regulatory issues)

Integrating frontend and the model

Other Developmental aspects of the projects



Team Member Details

Team Leader Name: KAUSIK D

Branch: B.Tech Stream: AIML Year: II

Team Member 1 Name: KARTHICK SRIRAM M

Branch: B.Tech Stream: AIML Year: II

Team Member 2 Name: JENAVANI D

Branch: B.Tech Stream: AIML Year: II

Team Member 3 Name: RAKSHANAA R

Branch: B.Tech Stream: AIML Year: II

Team Member 4 Name: LAKSHMISIMHA REDDY K

Branch: B.Tech Stream: AIML Year: III

Team Member 5 Name: JEYA DEEPAK J

Branch: B.Tech Stream: AIML Year: III

Team Mentor 1 Name: Type Your Name Here

Category (Academic/Industry):	Expertise (AI/ML/Blockchain etc):	Domain Experience (in years):
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Team Mentor 2 Name: Type Your Name Here

Category (Academic/Industry):	Expertise (AI/ML/Blockchain etc):	Domain Experience (in years):
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