

REBELS021

Problem Statement Id: KVH-007

Problem Statement Title: Spam alert system

Team Name: Rebels021

Team Leader: Aamir Raja

Institute Code (AISHE): U - 0865

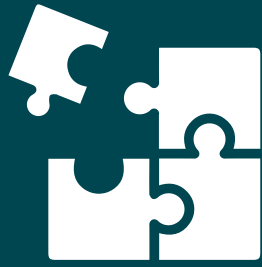
Institute Name: Techno India University

No. of Team Members: 06



PROBLEM DESCRIPTION

- Design and develop a crowd-sourcing based solution
- Analyse and verify the source of incoming calls, SMS, and Emails
- Classify whether the source is genuine or spam
- Generate a risk score for incoming calls, SMS, and Emails
- Crowd-sourced input from end-users as the basis for analysis
- Utilise crowd-sourcing to gather data on spam sources
- Develop algorithms to classify and verify the authenticity of incoming communications
- Incorporate risk scoring system to assess the level of potential risk associated with incoming calls, SMS, and Emails.



Solution Details

- **ML-based spam detection:** Build a machine learning model for spam detection analyzing phone numbers, SMS, and emails.
- **Real-time data ingestion:** Collect and ingest incoming call, SMS, and email data in real-time for continuous model updates.
- **Multimodal analysis:** Incorporate voice, text, and image analysis for improved spam detection accuracy.
- **User feedback loop:** Allow users to provide feedback on suspected spam to update and train the model.
- **Privacy-preserving techniques:** Implement data anonymization, encryption, or tokenization to protect user data and ensure compliance.
- **User customization:** Provide options for users to customize spam detection rules or settings.
- **Collaborative spam detection:** Involve users through crowdsourcing or community-based approaches for diverse data collection.

Technology stack

- **Backend :**

Python, Django, Tensorflow, NLP



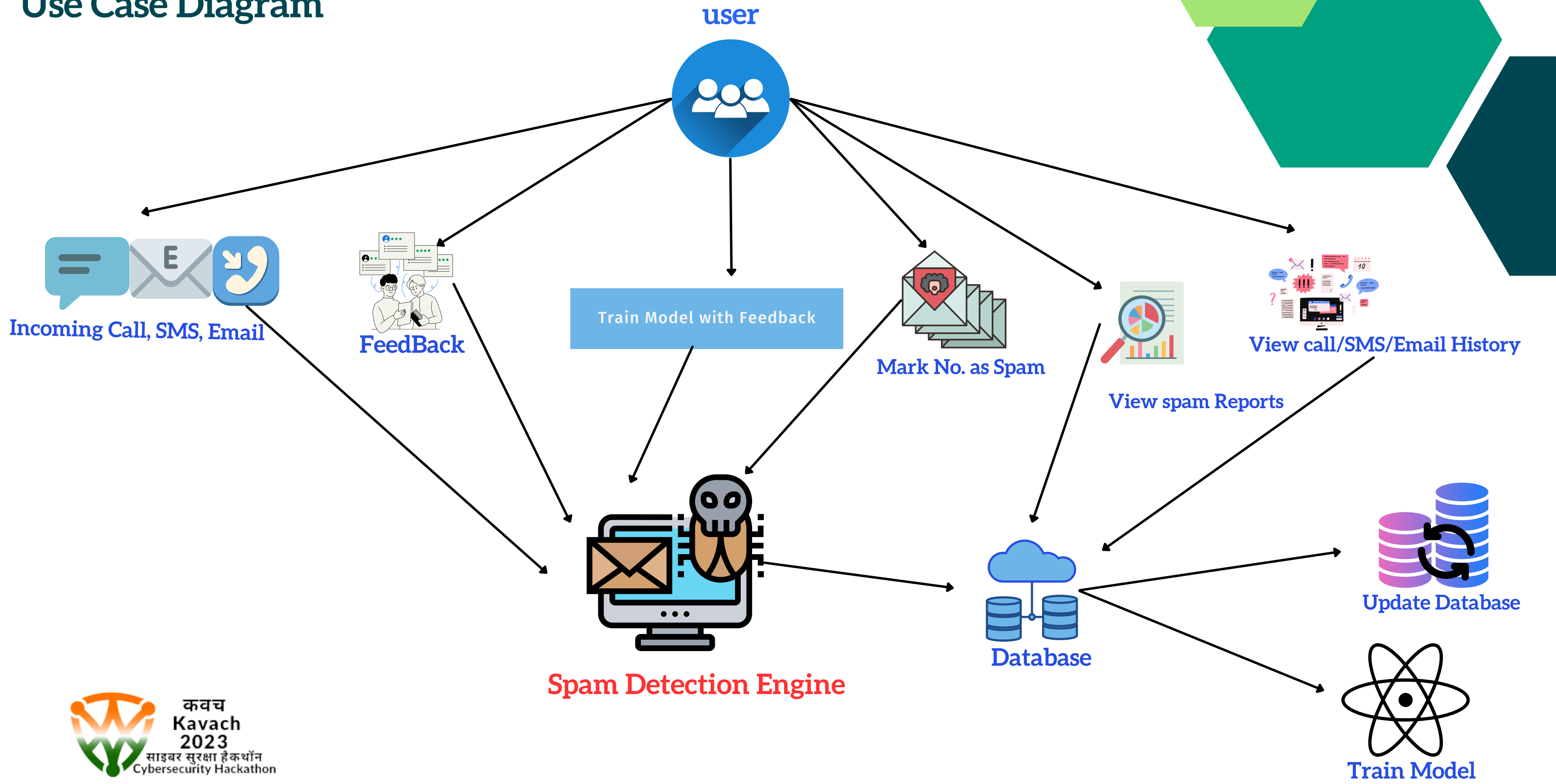
- **Frontend :** Html, CSS, Javascript (react-js)



- **Database :** MySQL



Use Case Diagram



Team Members

01 **Aamir Raja**
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