



DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

PROJECT PROPOSAL

1. Project Title: - AI driven Financial Fraud Detection System.

2. Project Scope: - The aim of this project is to develop an advanced, scalable AI-driven fraud detection system capable of real-time analysis and anomaly detection in financial transactions. The model can be enhanced with continuous learning, adapting to emerging fraud patterns, and integrated into large-scale financial systems to proactively mitigate financial fraud risks with high precision and efficiency.

3. Planning: - The project will be including of three parts:

Stage 1: Data Collection and Preparation

- **Objective:** Gather and preprocess the necessary data to train and validate the AI model.
- **Deliverables:** Cleaned and preprocessed dataset ready for model training.

Stage 2: Model Development and Training

- **Objective:** Develop, train, and evaluate machine learning models for fraud detection.
- **Deliverables:** Trained AI model with documented performance metrics.

Stage 3: System Integration and Deployment

- **Objective:** Integrate the AI model into a real-time fraud detection system and deploy it for use.
- **Deliverables:** Fully deployed fraud detection system with user documentation and training materials.

4. Task Definition: - The AI-Driven Financial Fraud Detection System is a project aimed at leveraging artificial intelligence and machine learning technologies to identify, prevent, and mitigate fraudulent activities within financial transactions. The system will be designed to analyze transaction data, detect unusual patterns, and flag potential fraud in real-time, helping financial institutions reduce losses and protect customers.

STUDENTS DETAILS

Name	UID	Signature
Pravinkumar Gohil	21BCS6218	
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APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

Name	Title	Signature (With Date)
Tanvi (E15506)	Supervisor	