Project Design Phase-I

Date	02 November 2023
Team ID	592128
Project Name	Online Payments Fraud Detection using ML
Maximum Marks	2 Marks

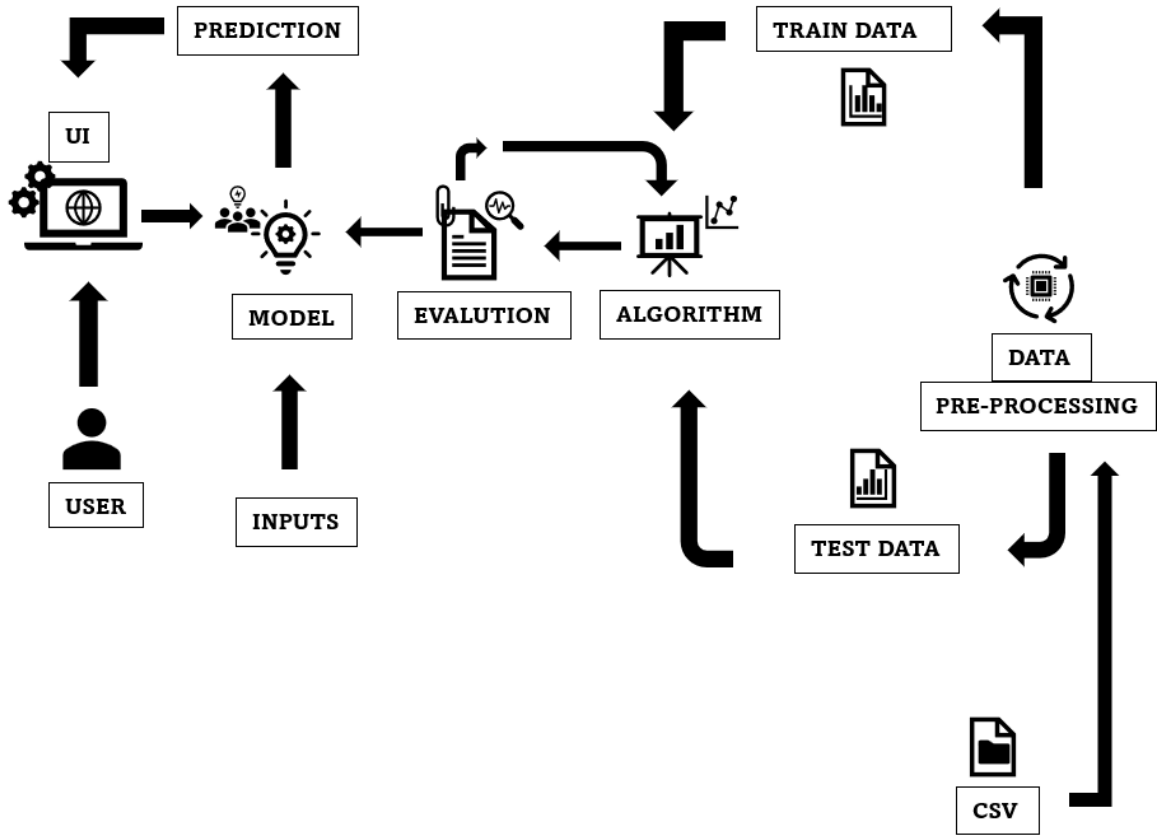
Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Develop an effective online payments fraud detection system using machine learning to reduce false positives, enhance customer satisfaction, and minimize financial losses for the company/banks
2.	Idea / Solution description	Create a smart system that uses machine learning to catch and stop online payment fraud, making internet shopping safer for everyone.
3.	Novelty / Uniqueness	Our innovative approach combines deep learning with real-time transaction analysis to detect payment fraud patterns, offering a more dynamic and effective solution.
4.	Social Impact / Customer Satisfaction	Enhancing customer satisfaction by reducing false positives and ensuring secure online transactions through advanced ML-driven fraud detection.
5.	Business Model (Revenue Model)	Generating revenue through subscription-based access to our online payment fraud detection platform, with tiered pricing for different business sizes.
6.	Scalability of the Solution	Designed for scalability, our solution can seamlessly adapt to growing transaction volumes, making it suitable for businesses of all sizes.

Project Design Phase-I
Solution Architecture

Date	02 November 2023
Team ID	592128
Project Name	Online Payments Fraud Detection using ML
Maximum Marks	4 Marks

Solution Architecture: (Example - Solution Architecture Diagram)

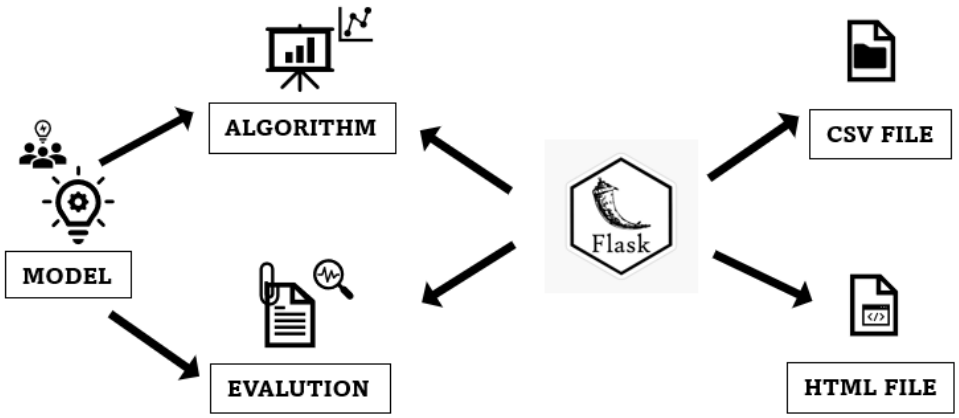


Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 November 2023
Team ID	592128
Project Name	Online Payments Fraud Detection using ML
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering UPI id and mobile number	I can access my account	High	Sprint-1
customer (web user)	Otp verification	USN-2	As a user, I will receive otp for conformation and register for application.	I can receive confirmation otp & click confirm	High	Sprint-1
Administrator	Alternate backup	USN-3	As an administrator, I need the capability to create backups of the model's configuration.	the administrator, can access the account interface when user forget information	Medium	Sprint-2
User	Performance Monitoring	USN-4	As a user, I can request a transaction for a specific date.	I can select a specific location and date	Medium	Sprint-2
Customer Care Executive	Assistance	USN-5	As a Customer Care Executive, I want to assist customers in using the fraud detection system effectively and address their concerns	I can access a customer management dashboard to assist customers.	Medium	Sprint-2

Administrator	Security & Functionality	USN-6	As an Administrator, I want to manage and maintain the system to ensure its	I can manage user roles and permissions, including Customer and Customer Care Executive roles.	High	Sprint-1