

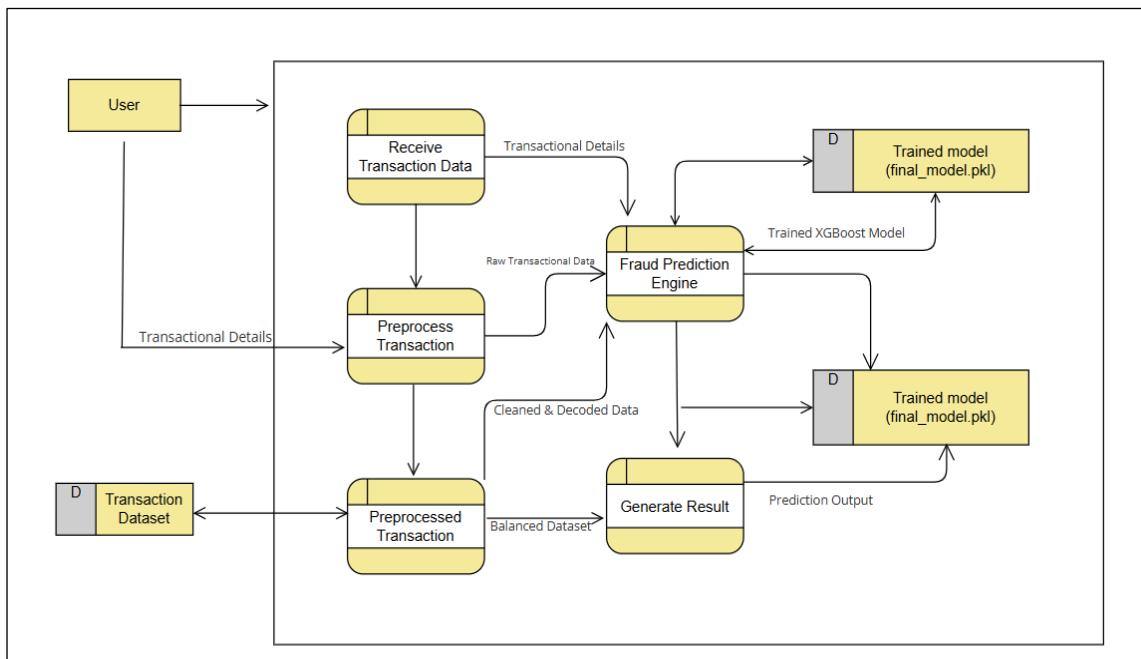
## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	18th February 2026
Team ID	LTVIP2026TMIDS57900
Project Name	Online Payments Fraud Detection using Machine Learning
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

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Online payment web user	Transaction Submission	USN-1	As an online payment web user, I want to enter transaction details into the system so that I can check whether the transaction is fraudulent.	I can input all required transaction fields (amount, type, balances). System validates mandatory fields before submission.	High	Sprint 1
Online Payment Web User	Fraud Detection & Prediction	USN-2	As an online payment web user, I want the system to analyze my transaction and predict whether it is fraud or legitimate so that I can take necessary action.	System processes input data and displays prediction result within a few seconds.	High	Sprint 2
Bank Fraud Monitoring Officer	Transaction Monitoring & Review	USN-3	As a bank fraud monitoring officer, I want to view flagged transactions so that I can verify and investigate suspicious activities.	I can see transaction details along with fraud prediction status.	High	Sprint 3
System Administrator	Model Management	USN-4	As a system administrator, I want the trained fraud detection model to be loaded automatically so that predictions can be made without manual intervention.	The system loads final_model.pkl at startup without errors.	High	Sprint 2
Bank Fraud Monitoring Officer	Fraud Reporting & Logging	USN-5	As a bank fraud monitoring officer, I want the system to store prediction results so that transaction records can be reviewed later.	Each prediction is logged with transaction details and result.	Medium	Sprint 3