

**Project Design Phase**  
**Solution Architecture**

Date	20 February 2026
Team ID	LTVIP2026TMIDS89328
Project Name	Online payments fraud detection using machine learning
Maximum Marks	4 Marks

**Solution Architecture:**

Solution architecture for **Online Payments Fraud Detection using Machine Learning** connects the business need for secure transactions with a reliable technical solution. Its goals are to:

- Design a scalable system to detect fraud in real time.
- Define the structure of components like data processing, ML model, and decision engine.
- Identify key features such as fraud scoring and alerts.
- Outline development phases from training to deployment.
- Provide clear technical specifications for implementation and maintenance.

**Example - Solution Architecture Diagram:**

## Online Payments Fraud Detection Architecture

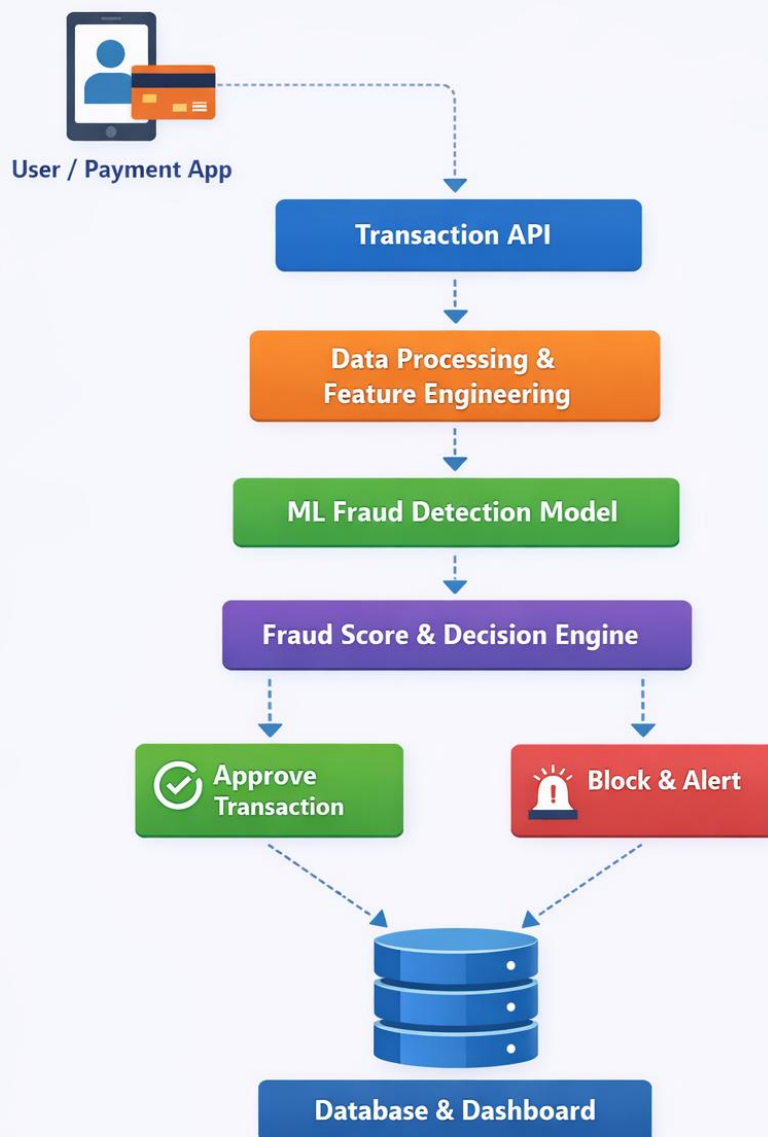


Figure 1: Architecture and data flow of the voice patient diary sample application

Reference: <https://aws.amazon.com/blogs/machine-learning/real-time-fraud-detection-using-aws-serverless-and-machine-learning-services/>