**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | 15 February 2025 |
| Team ID | LTVIP2026TMIDS34879 |
| Project Name | Online Payments Fraud Detection Using Machine Learning |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit Template:**

The Problem-Solution Fit in this project focuses on identifying security issues faced by users in online payment systems and developing a machine learning-based solution to effectively detect and prevent fraudulent transactions. It helps in understanding user behavior, fraud patterns, and system limitations to build a reliable and intelligent fraud detection system.

**Purpose:**

❑ Solve fraud-related challenges in digital payments by providing a secure and intelligent detection system.

❑ Improve system effectiveness by analysing user behaviour and transaction patterns in real-time.

❑ Enhance communication through timely alerts and notifications for suspicious transactions.

❑ Increase user trust by preventing financial losses and ensuring safe transactions.

❑ Understand existing fraud detection limitations and improve them using machine learning techniques for better accuracy and performance.

**Template:**

