Project Initialization and Planning Phase

Date	15 June 2025
Team ID	SWTID1751617613
Project Name	Auto Insurance Fraud Detection using ML
Maximum Marks	3 Marks

Define Problem Statements :

This project aims to leverage machine learning algorithms to detect fraudulent activities in automobile-related transactions based on behavioral, transactional, and vehicle-related features. The primary goal is to develop an intelligent system that can accurately identify potential frauds in real-time, enabling timely intervention and minimizing financial losses.

By analyzing patterns and anomalies in the data, the system can flag suspicious activities such as insurance fraud, odometer tampering, fake claims, or identity misuse. This solution supports insurance companies, dealerships, and regulatory bodies in enhancing trust, efficiency, and security across the automotive ecosystem.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	an insurance fraud investigator who handles multiple claims	detect fraudulent auto insurance claims quickly and accurately	I have to manually check each claim, which is time-consuming and error-prone	because there is no intelligent system that flags suspicious patterns automatically	overwhelmed, inefficient, and worried about missing critical fraud cases
PS-2	a policyholder who files	get my insurance claim approved	my claim gets delaye	because the system cannot	frustrated, unfairly treated, and distrustful of the process

	legitimate claims	and processed without delay	d due to lengthy fraud investi gations	differentiat e well between genuine and fraudulent claims	