Project Design Phase-I
Solution Architecture

Date	22 October 2023
Team ID	TMID 593136
Project Name	Project - **Car Purchase Prediction Using ML**
Maximum Marks	4 Marks

Solution Architecture:

Problem Statement: Predict if a user purchases a car based on the parameter present in the dataset
Tech Solution: use supervised machine learning. Support vector machines, decision trees, logistic regression, and random forests are examples of candidate algorithms.
Structure: The software comprises components for data collection, data preprocessing, model development, model evaluation, a user interface and deployment.
Features: The program should be able to take user inputs and produce predictions. It should also be scalable, secure, and intuitive to use.
Behavior: The software predicts car purchases based on user-provided data.

Specifications for Solution Architecture

Data Collection: Collect the data and store it in form of CSV.
Model Development: Develop an ML model based on the required output, here we need a yes or no output, so we can use methods such as DecisionTree or Random Forests for our binary classification.