Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	06 November 2023
Team Id	611318-1698393972
Project Name	Car purchase prediction using ML
Maximum Marks	4

Technical Architecture
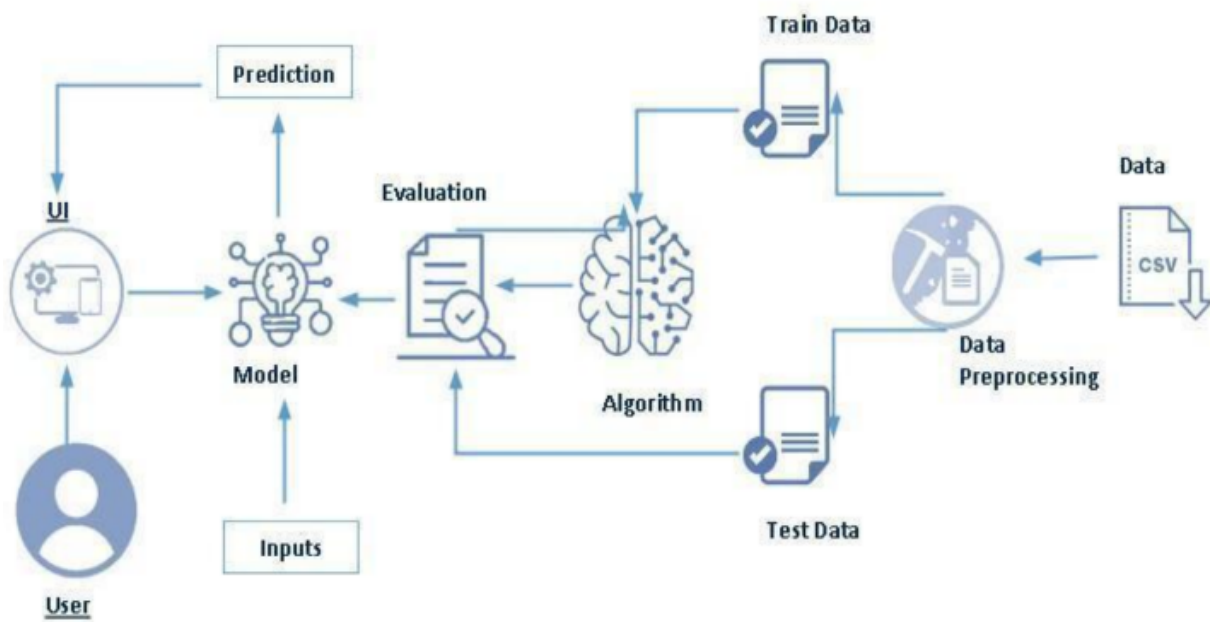
Table-1 : Components & Technologies:

S.No.	Component	Description	Technology
1.	User Interface	The way user interacts with the website	HTML, CSS, JS
2.	Machine Learning Model	Will calculate the likelihood of a customer to make a car purchase	Decision Tree, Random Forest, Support Vector classification
3.	Application Logic	Logic to run the app and link with the UI	Flask
4.	File Storage	To store the model, codes and the dataset	Local Machine
5.	Infrastructure	Application deployment on cloud/ local machine	Cloud - 1. Azure 2. PythonAnywhere 3. Heroku

Table-2 : Application Characteristics:

S.No.	Characteristics	Description	Technology
1.	Open Source Framework	Flask, Scikit Learn	Python
2.	Availability	Ensure High Availability	Auto Scaling
3.	Performance Optimization	Reduce latency	CDN