

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID17991
Project Name	Project – Machine Learning Based Vehicle Performance Analyzer
Maximum Marks	4 Marks

Technical Architecture:

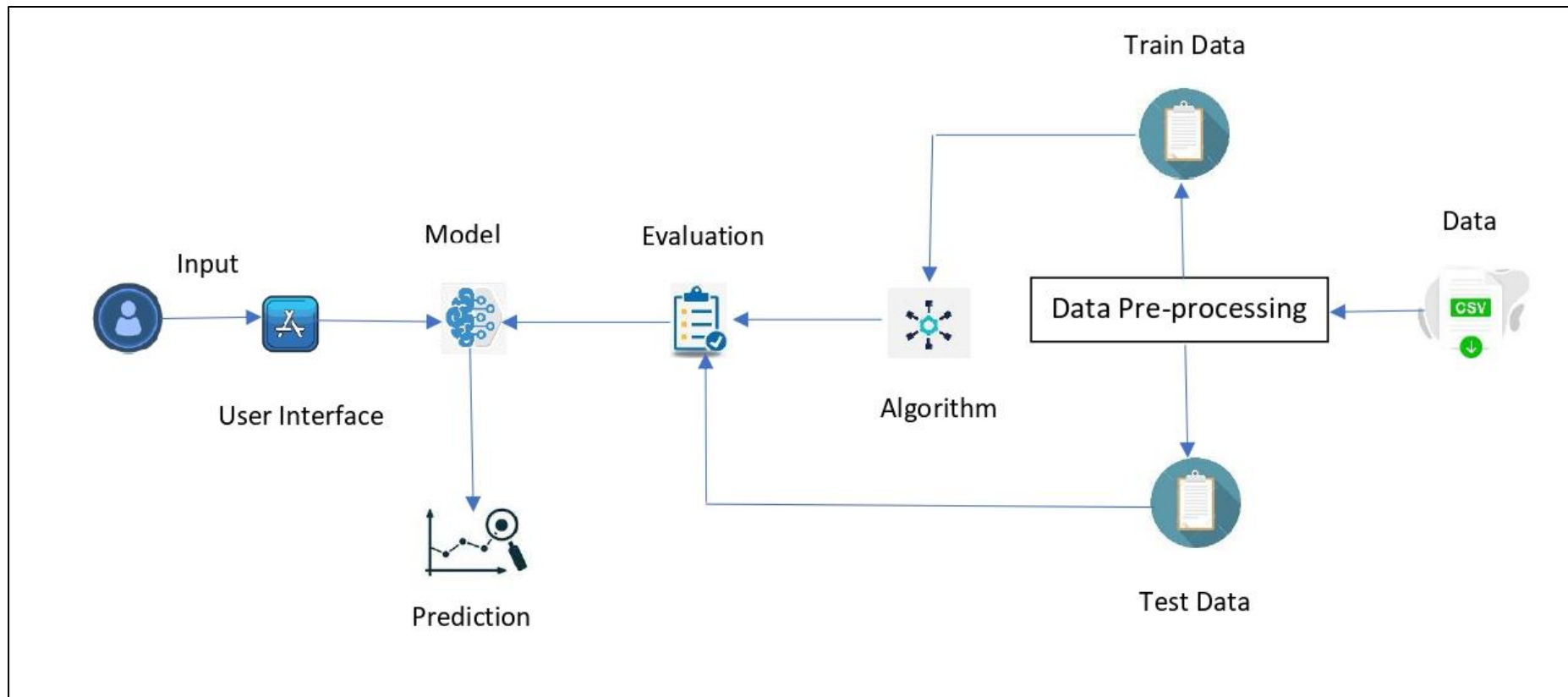


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	User interacts with application via user interface. e.g., Web UI, Mobile App etc.	HTML, CSS etc.
2.	Model Building	Choose the best regression model for predicting the performance by comparing various Machine Learning models.	Python
3.	Model Deployment	Train and deploy the model on cloud	IBM Watson cloud
4.	Performance Prediction	Performance of the vehicle is predicted based on the user inputs.	Python
5.	Database	A database is an organized collection of structured information, or data, typically stored electronically in a computer system.	MySQL.
6.	Machine Learning Model	Machine Learning Model used for predicting the performance of the vehicle.	Decision tree, Linear Regression, Random Forest etc.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	It provides the foundation for building a software application and free for public use.	Flask