

## Project Planning Phase Project Planning (Milestone Activity List)

Date	19 October 2022
Team ID	PNT2022TMID10856
Project Name	Machine Learning based Vehicle Performance Analyzer
Maximum Marks	4 Marks

### ***MILESTONE***

Pre-Requisites	M-01	The following software concepts and packages, including Machine learning, Python, KNN, Python Flask, IBM Cloudland DB, and Watson Studio, should have been familiar to us by the time we finished this project.	Yes
Data Collection	M-02	To create a project structure, create a Dataset.	Yes
Data Preprocessing	M-03	The dataset collection is separated into a various collection, first reading the dataset, handling the missing values, label encoding and one hot coding, splitting the dataset into dependent and independent variable, and into trainset and test set and normalizing and finally importing libraries.	Yes
Model Building	M-04	Build the model with the random forest regressor, predict the values and model the evaluation	Yes
Application Building	M-05	First, build an Index, HTML file, python code and python code-II, Run the app and finally output.	Yes
Train the model on IBM	M-06	Register on cloud IBM, train the model on IBM and integrate with the flask with scoring end point.	Yes

Ideation Phase	M-07	Prepare empathy map, take literature survey and Ideation.	Yes
Project Design Phase-I	M-08	Proposed Solution, Problem solution fit, Solution architecture.	Yes
Project Design Phase-II	M-09	Preparation of the technological stack architecture, functional requirements, data flow diagrams, and customerjourney mapping.	Yes
Project PlanningPhase	M-10	Prepare Milestone & Activity List and Sprint Delivery Plan.	Yes
Project development phase	M-11	Develop Sprint 1, Sprint 2, Sprint 3, Sprint 4.	Yes

# ACTIVITY LIST

Activity Number	Activity	Sub Activity	Assigned To	Status
1.	<b>Pre-Requisites</b>		GOKUL RAJ R	Completed
2.	<b>Data collection</b>	Structure Brainstorming and Preparation	ARSHATHUL MOHAMED HAQ B	Completed
3.	<b>Data Preprocessi ng</b>	Dataset download structure	KEVIN PATRICK C	Completed
4.	<b>Model Building</b>	Random forest regressor, predict the values and model the evaluation.	FARHAAN N	In Progress

6.	<b>Application Building</b>	First, build an Index, HTML file, python code and python code-II, Run the app and finally output	GOKUL SS	In progress
7.	<b>Train of KNN model in IBM cloud</b>	Register on cloud IBM, train the model on IBM and integrate with the flask with scoring end point.	ARSHATHUL MOHAMED HAQ B	In progress
8.	<b>Ideation Phase</b>	Prepare empathy map, take literature survey and Ideation.	GOKUL RAJ R	Completed
9.	<b>Project Design Phase- 1</b>	Literature Review, Empathy map, Ideation of the project.	GOKUL SS	Completed

10.	<b>Project Design Phase-2</b>	Proposed Solution, Problem, Solution Fit and Solution Architecture	FARHAAN N	Completed
11.	<b>Project Planning Phase</b>	Customer journey, Functional requirement, Data flow Diagrams and Technology stack Architecture.	KEVIN PATRICK C	Completed
12.	<b>Project Development Phase</b>	Milestone preparation, activity list, sprint delivery plan.	FARHAAN N	In Progress