Project Planning Phase

Project Planning (Milestone Activity List)

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| Date | 19 October 2022 |
| Team ID | [PNT2022TMID10847](https://github.com/IBM-EPBL/IBM-Project-8115-1658909615/blob/main/Assignments/Team%20member%201/PNT2022TMID10847%20-Assignment_1.pdf) |
| Project Name | Machine Learning based Vehicle Performance Analyzer |
| Maximum Marks | 4 Marks |

***MILESTONE***

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| 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 |

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| 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 customer journey mapping. | Yes |
| Project  Planning Phase | 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**

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| Activity Number | | Activity | | Sub Activity | | Assigned To | | Status |
| 1. | | **Pre-Requisites** | |  | | Chandru N  Dinesh kumar S  Bogar S  Koushik M | | Completed |
| 2. | | **Data collection** | | Structure Brainstorming and Preparation | | Chandru N | | Completed |
| 3. | | **Data Preprocessing** | | Dataset download structure | | Chandru N  Dinesh kumar S  Bogar S  Koushik M | | Completed |
| 4. | | **Model Building** | | Random forest regressor, predict the values and model the evaluation. | | Chandru N  Dinesh kumar S  Bogar S | | In Progress |
| 6. | | **Application Building** | | First, build an Index, HTML file, python code and python code-II, Run the app and finally output | Chandru N  Dinesh kumar S  Bogar S  Koushik M | In progress | |
| 7. | | **Train of KNN model in IBM cloud** | | Register on cloud IBM, train the model on IBM and integrate with the flask with scoring end point. | Chandru N  Dinesh kumar S  Bogar S  Koushik M | In progress | |
| 8. | | **Ideation Phase** | | Prepare empathy map, take literature survey and Ideation. | Dinesh kumar S  Bogar S  Koushik M | Completed | |
| 9. | | **Project Design Phase- 1** | | Literature Review, Empathy map, Ideation of the project. | Chandru N  Dinesh kumar S  Bogar S  Koushik M | Completed | |

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| 10. | **Project Design Phase-2** | Proposed Solution, Problem, Solution Fit and Solution Architecture | Dinesh kumar S  Bogar S  Koushik M  Chandru N | Completed |
| 11. | **Project Planning Phase** | Customer journey,Functional requirement, Data flow Diagrams and Technology stack Architecture. | Dinesh kumar S  Bogar S  Koushik M  Chandru N | Completed |
| 12. | **Project Development Phase** | Milestone preparation, activity list, sprint delivery plan. | Dinesh kumar S  Bogar S  Koushik M  Chandru N | In Progress |