**Employee Retention Prediction at Salifort Motors With ML** |**Project Proposal**

## **Overview**

Build a Machine Learning Model For retention employee prediction of Salifort Motors company using the data of the company that includes different features like department, number of projects, average monthly hours, and any other data points that affect the outcome variable which is retention employee binary classification.

| **Milestone** | **Tasks** | **Deliverables/Reports** | **Relevant Stakeholder (Optional)** |
| --- | --- | --- | --- |
| **1** | **Establish structure for project workflow (PACE)**  **Plan** | * Global-level project document |  |
| **1a** | **Communicate The stakeholders about the data Understand the data**  **Get high accuracy of retention employee prediction Using The best ML model**  **Plan** |  |  |
| **2** | **Compile summary information about the data**  **Analyze** | * Data files ready for EDA |  |
| **2a** | **Begin exploring the data**  **Analyze** |  |  |
| **3** | **Data exploration and cleaning**  **Plan and Analyze** | * EDA results |  |
| **3a** | **Visualization building**  **Analyze and Construct** | * Tableau dashboard/visualizations |  |
| **4** | **Compute descriptive statistics**  **Analyze** | * Analysis of testing results between two important variables |  |
| **4a** | **Conduct hypothesis testing**  **Analyze and Construct** |  |  |
| **5** | **Build Tree based ML model**  **Build bagging and boosting and compare them**  **Construct** | * Machine Learning |  |
| **5a** | **Evaluate the models and choose the best model**  **Execute** | * Evaluation Phase |  |
| **6** | **Select the model that performs well**  **Construct** | * Final model |  |
| **6a** | **Communicate final insights with stakeholders**  **Execute** | * Report to all stakeholders |  |

Milestone 1: 1-2 days

Milestone 2: 2-3 weeks

Milestone 3: 1 week

Milestone 4: 1 week

Milestone 5: 1-2 weeks