**Project proposal**

**Employee Retention Analysis**

## **Overview**

*The company Salifort aim to utilize the data collected from employees to predict whether they will leave the company.*

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| **Milestones** | **PACE stages** | **Tasks** | **Deliverable** | **Time frame** |
| **1** | **Plan** | **establish structure for project workflow.** | **Project documentation** | **1-2 days** |
| **1a** |  | **Write a project proposal** | **Proposal** | **1 day** |
| **2** | **Analyze** | **Compile summary information about the data** | **Data files ready for EDA** | **1 day** |
| **3** | **Analyze** | **EDA and data cleaning** |  | **1 day** |
| **3a** |  | **Build visualizations from the data, look for insights, and patterns** |  | **2-3 days** |
| **3b** |  | **Compute descriptive statistics** | **EDA report, data visual dashboard** | **2-3 days** |
| **3c** | **Analyze & Construct** | **Conduct hypothesis testing** | **Result of testing** | **1 day** |
| **4** | **construct** | **Build regression model** |  | **1 day** |
| **4a** |  | **Evaluate regression model** | **Model, prediction and evaluation scores** | **1 day** |
| **4b** |  | **Build tree-based model** |  | **2-3 days** |
| **4c** |  | **Evaluate tree-based model** | **Model, prediction and evaluation scores** | **1 day** |
| **5** | **Construct & Execute** | **Communicate results with stakeholders** | **Summary of results** | **2-3 days** |
| **5a** | **Execute** | **Write an executive summary, provide results and recommendations** | **Executive summary** | **2 days** |