**WazeGrow Project Proposal**

## **Overview:**

Waze leadership has asked the data team to build a machine learning model to predict user churn. The model is based on data collected from users of the Waze app.

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| **Milestone** | **Tasks** | **Deliverables/Reports** | **Relevant Stakeholder (Optional Activity)** |
| **1** | Establish structure for project workflow (PACE)  Plan | * Global-level project document |  |
| **1a** | Write a project proposal  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 report |  |
| **3a** | Visualization building  Construct | * Tableau dashboard/visualizations |  |
| **4** | Compute descriptive statistics  Analyze | * Analysis of testing results between two important variables |  |
| **4a** | Conduct hypothesis testing  Analyzeand Construct |  |  |
| **5** | Build a regression model  Construct |  |  |
| **5a** | Evaluate the model  Execute | * Determine the success of the model |  |
| **6** | Build a machine learning model  Construct | * Final model |  |
| **6a** | Communicate final insights with stakeholders  Execute | * Report to all stakeholders |  |

**Milestones and Timeline**

1. **Kickoff and Planning (Week 1)**:
   * Draft the project proposal and PACE workflow.
2. **Data Analysis (Weeks 2–4)**:
   * Conduct EDA, clean data, compute statistics, and finalize hypothesis testing.
3. **Model Development (Weeks 5–7)**:
   * Build, test, and validate the machine learning model.
4. **Presentation and Execution (Weeks 8–9)**:
   * Prepare visualizations and present final insights to stakeholders.