**NYC Taxi and Limousine Commission Project Proposal**

## **Overview:**

The NYC Taxi and Limousine Commission (TLC) has collected detailed taxi and rideshare trip data. Our objective is to create a regression model to predict taxi fares before each ride using distance, time of day, and other relevant factors.

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| **Milestone** | **Tasks** | **Deliverables/Reports** | **Relevant Stakeholder (Optional Activity)** |
| **1** | Establish structure for project workflow (PACE)  Plan  Define business problem & success metrics | Global-level project document with scope, objective, and KPIs | Project Manager, TLC representative |
| **1a** | Not necessary for this project  Plan | Data access request and approval | Data Governance Officer |
| **2** | Begin exploring the data  Analyze | Data access request and approval | Data Engineer |
| **2a** | Data exploration and cleaning  Analyze | Cleaned dataset summary | Data Analyst |
| **3** | Begin exploring the data  Analyze | EDA report | Data Science Lead |
| **3a** | Communicate final insights with stakeholders  Construct | Tableau dashboard/visualizations | TLC Decision Makers |
| **4** | Conduct hypothesis testing  Analyze | Analysis of testing results between two important variables | Data Scientist |
| **4a** | Feature Engineering and model selection  Construct | Feature setting and chosen algorithm rationale | Data Science Lead |
| **5** | Build a regression model  Construct  Evaluate the model | Model performance metrics | Data Scientist |
| **5a** | Evaluate the model  Execute | Determine the success of the model | Project Manager |
| **6** | Deploy the final model in production  Execute | Final model | DevOps Engineer |
| **6a** | Communicate final insights with stakeholders  Execute | Report to all stakeholders | All stakeholder |