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.

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

Course 1: Foundations of Data Science

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