

AUTOMATIDATA PROJECT PROPOSAL

OVERVIEW

The New York City Taxi and Limousine Commission seeks a way to utilize the data collected from the New York City area to predict the fare amount for taxi cab rides.

Milestones	Tasks	Deliverables/Reports	Relevant Stakeholder
1	Establish structure for project workflow (PACE) PLAN PHASE	Project Workflow Document Define phases, roles, responsibilities, timelines, and milestones.	Steven Rogers (Senior Project Manager)
1.a	Write a project proposal PLAN PHASE	Formal Project Proposal Report Executive summary, objectives, scope, methodology, expected outcomes.	Steven Rogers (Senior Project Manager)
2	Compile summary information about the data ANALYSE PHASE	Data Summary Report Metadata, data sources, variables, formats, completeness. Initial descriptive overview (counts, ranges, missing values).	Bruce Banner (Senior Data Analyst)
2.a	Begin exploring the data ANALYSE PHASE	Exploratory Data Analysis (EDA) Initial plots, distributions, correlations. Key observations and anomalies.	Tashen Kanaye (Data Analyst)
3	Data exploration and cleaning PLAN & ANALYSE PHASE	Data Cleaning & Preparation Report Documented steps: handling missing values, outliers, transformations. Clean dataset version with reproducible scripts.	Bruce Banner (Senior Data Analyst) with support from Tashen Kanaye (Data Analyst)
3.a	Visualization building	Visualization Dashboard / Report Graphs, charts, dashboards (static or interactive).	Thor Odinson (Data Analysis Manager) with

	ANALYSE & CONSTRUCT PHASE	Highlights trends, comparisons, and relationships.	Tashen Kanaye (Data Analyst)
4	Compute descriptive statistics ANALYSE PHASE	Descriptive Statistics Report Measures of central tendency (mean, median, mode). Variability (variance, standard deviation). Distribution summaries.	Bruce Banner (Senior Data Analyst)
4.a	Conduct hypothesis testing ANALYSE & CONSTRUCT PHASE	Hypothesis Testing Report Null/alternative hypotheses, test statistics, p-values. Interpretation of results in business/research context.	Tony Stark (Director of Data Analysis) with Bruce Banner (Senior Data Analyst)
5	Build a regression model ANALYSE & CONSTRUCT PHASE	Regression Model Report Model specification, coefficients, assumptions checked. Performance metrics (R^2 , adjusted R^2 , residual analysis).	Tony Stark (Director of Data Analysis) with Tashen Kanaye (Data Analyst)
5.a	Evaluate the model EXECUTE PHASE	Model Evaluation Report Validation results (train/test split, cross-validation). Metrics: RMSE, MAE, accuracy, precision/recall (depending on type). Comparison with baseline models.	Thor Odinson (Data Analysis Manager)
6	Communicate final insights with stakeholders EXECUTE PHASE	Final Insights & Recommendations Report Executive-friendly summary with visuals. Actionable recommendations tied to business objectives. Presentation slides or stakeholder briefing document.	Tony Stark (Director of Data Analysis) and Steven Rogers (Senior Project Manager)