

# 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	<b>Establish structure for project workflow (PACE)</b> <span style="color: #80B0D0;">PLAN PHASE</span>	<b>Project Workflow Document</b> Define phases, roles, responsibilities, timelines, and milestones.	<a href="#">Steven Rogers</a> (Senior Project Manager)
1.a	<b>Write a project proposal</b> <span style="color: #80B0D0;">PLAN PHASE</span>	<b>Formal Project Proposal Report</b> Executive summary, objectives, scope, methodology, expected outcomes.	<a href="#">Steven Rogers</a> (Senior Project Manager)
2	<b>Compile summary information about the data</b> <span style="color: #80B0D0;">ANALYSE PHASE</span>	<b>Data Summary Report</b> Metadata, data sources, variables, formats, completeness. Initial descriptive overview (counts, ranges, missing values).	<a href="#">Bruce Banner</a> (Senior Data Analyst)
2.a	<b>Begin exploring the data</b> <span style="color: #80B0D0;">ANALYSE PHASE</span>	<b>Exploratory Data Analysis (EDA)</b> Initial plots, distributions, correlations. Key observations and anomalies.	<a href="#">Tashen Kanaye</a> (Data Analyst)
3	<b>Data exploration and cleaning</b> <span style="color: #80B0D0;">PLAN &amp; ANALYSE PHASE</span>	<b>Data Cleaning &amp; Preparation Report</b> Documented steps: handling missing values, outliers, transformations. Clean dataset version with reproducible scripts.	<a href="#">Bruce Banner</a> (Senior Data Analyst) with support from <a href="#">Tashen Kanaye</a> (Data Analyst)
3.a	<b>Visualization building</b>	<b>Visualization Dashboard / Report</b> Graphs, charts, dashboards (static or interactive).	<a href="#">Thor Odinson</a> (Data Analysis Manager) with

	<b>ANALYSE &amp; CONSTRUCT PHASE</b>	Highlights trends, comparisons, and relationships.	Tashen Kanaye (Data Analyst)
4	<b>Compute descriptive statistics</b>  <b>ANALYSE PHASE</b>	<b>Descriptive Statistics Report</b> Measures of central tendency (mean, median, mode). Variability (variance, standard deviation). Distribution summaries.	Bruce Banner (Senior Data Analyst)
4.a	<b>Conduct hypothesis testing</b>  <b>ANALYSE &amp; CONSTRUCT PHASE</b>	<b>Hypothesis Testing Report</b> 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	<b>Build a regression model</b>  <b>ANALYSE &amp; CONSTRUCT PHASE</b>	<b>Regression Model Report</b> 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	<b>Evaluate the model</b>  <b>EXECUTE PHASE</b>	<b>Model Evaluation Report</b> 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	<b>Communicate final insights with stakeholders</b>  <b>EXECUTE PHASE</b>	<b>Final Insights &amp; Recommendations Report</b> 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)