



# NYC Taxi Fare Price Prediction Using Regression Modeling

**Overview:** The goal is to develop a regression model that accurately predicts taxi fare prices in NYC using real-world TLC ride data. This model will consider variables such as trip distance, pickup/dropoff time, and other ride-related metrics. The outcome will improve fare estimate accuracy for stakeholders and support future fare policy decisions.

Milestone	Tasks	Deliverables/Reports	Relevant Stakeholder (Optional Activity)
1	<div>Write a project proposal</div> <div>Plan</div>	<ul style="list-style-type: none"><li>Global-level project document</li></ul>	Automatidata Lead
1a	<div>Establish structure for project workflow (PACE)</div> <div>Plan</div>	Timeline + Task map	Internal team
2	<div>Compile summary information about the data</div> <div>Analyze</div>	<ul style="list-style-type: none"><li>Data files ready for EDA</li></ul>	N/A



## Course 1: Foundations of Data Science

2a	<p>Begin exploring the data</p> <p>Analyze</p>	<p>Cleaning data (removing outliers, handling nulls) is part of data construction.</p>	N/A
3	<p>Data exploration and cleaning</p> <p>Analyze and Plan</p>	<ul style="list-style-type: none"><li>EDA report</li></ul>	N/A
3a	<p>Visualization building</p> <p>Construct and Analyze</p>	<ul style="list-style-type: none"><li>Tableau dashboard/visualizations</li></ul>	Business stakeholders
4	<p>Compute descriptive statistics</p> <p>Analyze</p>	<ul style="list-style-type: none"><li>Analysis of testing results between two important variables</li></ul>	N/A
4a	<p>Conduct hypothesis testing</p> <p>Construct and Analyze</p>	<p>Regression model</p>	Data team
5	<p>Build a regression model</p> <p>Analyze and Construct</p>	<p>RMSE/R<sup>2</sup> results</p>	N/A
5a	<p>Evaluate the model</p> <p>Execute</p>	<ul style="list-style-type: none"><li>Determine the success of the model</li></ul>	Automatidata Lead



## Course 1: Foundations of Data Science

6	<p>Build a machine learning model</p> <p>Construct ▾</p>	<ul style="list-style-type: none"><li>Final model</li></ul>	N/A
6a	<p>Communicate final insights with stakeholders</p> <p>Execute ▾</p>	<ul style="list-style-type: none"><li>Report to all stakeholders</li></ul>	NYC TLC