



# 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	<p>Write a project proposal</p> <p><a href="#">Plan</a></p>	<ul style="list-style-type: none"><li>Global-level project document</li></ul>	Automatidata Lead
1a	<p>Establish structure for project workflow (PACE)</p> <p><a href="#">Plan</a></p>	Timeline + Task map	Internal team
2	<p>Compile summary information about the data</p> <p><a href="#">Analyze</a></p>	<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>	Cleaning data (removing outliers, handling nulls) is part of data construction.	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>	Regression model	Data team
5	<p>Build a regression model</p> <p>Analyze ▾ and Construct ▾</p>	RMSE/R <sup>2</sup> results	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

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