

OVERVIEW

A regression model is being developed to forecast taxicab fares for the NYC Taxi & Limousine Commission. In this phase of the project, a preliminary examination of the data provided by the NYC Taxi and Limousine Commission has been conducted to convey essential descriptions of data variables and confirm the suitability of the information for deriving clear and meaningful insights.

PROJECT STATUS

- Explored dataset to find any unusual values.
- Considered which variables are most useful to build predictive models (in this case: 'total\_amount' and 'trip\_distance, which work together to depict a taxicab ride).
- Considered potential interactions between the two chosen variables.
- Examined which components of the provided data will provide relevant insights.
- Built the groundwork for future exploratory data analysis, visualization, and models.

NEXT STEPS

1. Conduct a complete exploratory data analysis.
2. Perform any data cleaning and data analysis steps to understand unusual variables (e.g. outliers).
3. Use descriptive statistics to learn more about the data.
4. Create and run a regression model.

KEY INSIGHTS

- This dataset includes variables that should be helpful for building prediction model(s) on taxicab ride fares.
- The identified unusual values are trips that are a short distance but have high charges associated with them, as shown in the 'total\_amount' variable. Reference screenshots:

Total_amount variable	
trip_distance	fare_amount
2.60	999.99
0.00	450.00
33.92	200.01
0.00	175.00
0.00	200.00
32.72	107.00
25.50	140.00
7.30	152.00
0.00	120.00
33.96	150.00