

New York City TLC Project Preliminary Data Summary

Executive summary report
Commission Prepared by **Automatidata**

OVERVIEW

The NYC Taxi & Limousine Commission has contracted with Automatidata to build a regression model that predicts taxi cab fares. In this part of the project, the Automatidata data team performed a preliminary inspection of the data supplied by the NYC Taxi and Limousine Commission in order to inform the team of key data variable descriptions, and ensure the information provided is suitable for generating 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 taxi cab 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, visualizations, 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 taxi cab 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

[Alt-text] The `total_amount` variable indicates the necessity of further analyzing outlier variables.