## **New York City TLC Project EDA Summary**

### **Executive Summary Report**

### **Project Overview**

In this part of this project, the Automatidata Team initiated an exploratory data analysis on the data provided by the TLC. The goal is to inform the TLC of summary statistics of some key variables.

## **Details**

trip\_distance

total amount

# Key Insights

- No null values are detected in the data.
- The two most helpful columns of this data would be total\_amount (the total amount of money paid by the customer) and trip\_distance (the distance of each trip).
- These two
  variables, along
  with related
  variables, are
  heavily
  left-skewed, with
  zero and negative
  values in cost.
- Some
   short-distance
   trips have
   unusually high
   costs.

|  | 0.00 | 0.31  |
|--|------|-------|
| These are some                                   | 0.10 | 0.30  |
| screenshots from the                             | 0.00 | 0.00  |
| EDA step. Some values                            | 0.00 | 0.00  |
| are negative or zero,                            | 7.06 | 0.00  |
| which suggests a sort                            | 0.00 | 0.00  |
| of imputation mistake.<br>The related            | 0.04 | -3.30 |
| trip_distance values on                          | 0.10 | -3.80 |
| its left, and some                               | 0.12 | -3.80 |
| distances have zero,                             | 0.02 | -3.80 |
| which again is unusual, especially a free 7-mile | 0.25 | -4.30 |
| ride.  | 0.06 | -4.30 |

# **Next Steps**

Next steps in this project would include:

- 1. Do data cleaning and more analysis with unusual values.
- 2. Perform a more-detailed exploratory data analysis, with visualizations.
- 3. Do a descriptive statistical analysis on the variables of interest.
- 4. Conduct hypothesis testing.
- 5. Establish the final regression model.