Analyzing the NYC Subway Dataset Documentation

Release 1.0

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ONE

OVERVIEW

This project consists of two parts. In Part 1 of the project, you should have completed the questions in Problem Sets 2, 3, 4, and 5 in the Introduction to Data Science course.

This document addresses part 2 of the project. Please use this document as a template and answer the following questions to explain your reasoning and conclusion behind your work in the problem sets. You will attach a document with your answers to these questions as part of your final project submission.

TWO

STATISTICAL TEST

- 2.1 Statistical Test Used
- 2.2 Justify the Statistical Test
- 2.3 Results
- 2.4 Interpretation

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THREE

LINEAR REGRESSION

- 3.1 Linear regression algorithm(s)
- 3.1.1 Gradient descent
- 3.1.2 OLS (with statsmodels)
- 3.2 Features used
- 3.3 Feature selection: why?
- 3.4 Results: R Squared
- 3.5 Interpretation and limits

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FOUR

VISUALIZATION

- 4.1 Ridership distribution with weather
- 4.2 Supporting visualizations

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CHAPTER	
FIVE	

CONCLUSION

SIX

REFLECTION

- **6.1 Shortcomings and limitations**
- 6.2 Insights