

Analyzing the NYC Subway Dataset

Short Answer Rubric

Overview

This rubric is here to help you understand the expectations for how your project will be evaluated. It is the same rubric that the person evaluating your project will use. You should look at the rubric before you begin working on this project and before you submit it.

Minimum Requirements

Your submission will not meet specifications if you do not answer all of the short questions.

How Grading Works:

- Your answers to the following short questions will be evaluated against the answer rubric
- Your grade will simply be “pass” or “doesn’t pass.”
 - You earn a “pass” by not having any criteria items in the “does not meet specifications” column.
 - If any criteria item “does not meet specifications,” you will not pass. However, you will be able to make changes and re-submit.

The Rubric

	Does Not Meet	Meets
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Criteria	Specifications	Specifications
Communication		
Writing is appropriate for the intended audience (Intro DS Classmates).	Analysis done using methods learned in the course is poorly explained and would not be understandable to a student who has completed the class.	Analysis done using methods learned in the course is explained in a way that would be understandable to a student who has completed the class.
The answers provide a readable summary of the analyses	The answers are not well-focused (e.g. stream of consciousness) or leave out important information (e.g. not fully answering the question).	The answers are a well-formed summary of the analyses.
Quality of Visualizations		
Plots shows relationships between two more or variables	Plots do not depict relationship between two or more variables	Plots depict relationships between two or more variables
Plot type (bar plot, line plot, scatter plots, histograms, etc...) and data represented are appropriate for the analysis.	Not all plots and data are of the appropriate type.	All plots and data are of the appropriate type
Plots are easy to read.	Some plots are not appropriately labeled and titled or visual cues are not always easy to distinguish. It is not clear what data are represented.	All plots are appropriately labeled and titled. Plot is given an appropriate title. X-axis and y-axis are appropriately labeled. Visual cues (colors, size, etc) are easy to distinguish. It is clear what data are represented.
Quality of Analysis		

Choice of statistical tests and linear regression models are appropriate	The choice of statistical test type, features, and linear regression models are sometimes not appropriate based on the characteristics of the data.	When using statistical tests and linear regression models, the choice of test type and features are always well justified based on the characteristics of the data.
Statistical tests and linear regression models are described and justified appropriately.	Statistical tests or linear regression models are not described thoroughly, or the reasons for choosing them are not clearly articulated.	Statistical tests and linear regression models are described thoroughly, and the reasons for choosing them are articulated clearly.
Analyses are carried out correctly	Mistakes are made in use or interpretation of statistical techniques	The use and interpretation of statistical techniques are correct
Conclusions are correctly justified with data.	Some conclusions are not correctly justified with data.	All conclusions are correctly justified with data.
Conclusions are correct.	Some of the conclusions drawn are incorrect.	No incorrect conclusions are drawn from the data.
Potential shortcomings of the dataset and analysis are addressed.	Shortcomings of the dataset and statistical tests or regression techniques used are not appropriately acknowledged.	Some shortcomings of the dataset and statistical tests or regression techniques used are appropriately acknowledged.