UDACITY

Nanodegree Project Evaluation

STUDENT Joe Nyzio

COURSE Intro to Data Science

Hi Joe,

Congratulations on your work here!

Albert Pasaoa and the Udacity Team

Click here to tell us whether this feedback was helpful.

Communication **Meets Specifications**

- 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 are a well-formed summary of the analyses.

Quality of Visualizations **Meets Specifications**

- Plots depict relationships between two or more variables.
  Comment: Good job for including multiple plots that allow us to look at relationships in multiple angles in your submission.
- All plots are of the appropriate type.
- 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.
  Comment: For future reference, you might want to restrict the range of the x-axis to eliminate so much white space on the right side of your plots. For example, you could insert + xlim(0,20000) in your ggplot line to restrict the entry ranges from 0 to 20000.

Quality of Analysis **Meets Specifications**

- 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.
  Comment: In this case it might be a good idea to use a two-tailed statistical test. Picking a one-tailed test means that we assume in advance (before we collect the data) that rain will not

be associated with lower ridership, which is a very strong assumption. For more information, see the following: http://www.ats.ucla.edu/stat/mult_pkg/faq/general/tail_tests.htm

- Statistical tests and linear regression models are described thoroughly, and the reasons for choosing them are articulated clearly.
- The use and interpretation of statistical techniques are correct.
  Comment: Your statement of the null hypothesis for the Mann-Whitney U test captures the general idea of the test. An exact statement of the null hypothesis can be found in the downloadables from Lesson 3. The downloadable notes about the Mann-Whitney U test can be accessed by clicking on the appropriate link below the video window of any of the Lesson 3 videos.
- All conclusions are correctly justified with data.
  Comment: Good job dealing with conflicting results.
- No incorrect conclusions are drawn from the data.
- Some shortcomings of the statistical tests or regression techniques used are appropriately acknowledged.

PROJECT EVALUATION

Project Meets Specifications