UDACITY

Nanodegree Project Evaluation

STUDENT

# Chi-Yuan Cheng

COURSE

Intro to Data Science

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Hi Chi-Yuan,

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.
  Comment: Clear and concise writing. Good job.
- 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. You incorporated information for both entries and exits in a way that was interesting and well conveyed.
- All plots are of the appropriate type.
  Comment: The use of a line graph to compare entries and exits over time worked out well. Good choice.
- 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 — 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.
- 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: Some clarifications.
  You wrote, "The null hypothesis is that the datasets of ridership in rainy and non-rainy days are identical. "  Replacing "datasets" with "distribution" would be more accurate.

  Also, you wrote, "The p-critical value is 0.025 for the probability distribution of a 95% confidence level." This is incorrect. For a 95% confidence level, your critical p-value is 0.05. While the 2-tailed test changes the critical value of the test statistic, it does not change the critical p. Please check out this link:

  http://www.ats.ucla.edu/stat/mult_pkg/faq/general/tail_tests.htm

- All conclusions are correctly justified with data.
- No incorrect conclusions are drawn from the data.
- Some shortcomings of the statistical tests or regression techniques used are appropriately acknowledged.
  Comment: Good job noticing the limitations of the weather data, and the 4-hour intervals.

PROJECT EVALUATION

## Project Meets Specifications