# Investigate a Dataset

REVIEW

HISTORY

## Meets Specifications

## Congratulations you did it! You will become an exceptional Data Analyst

*Your project is well organized and you did a fabulous job with the documentation and visualization sections. Keep the great work*

What a great submission, thank you for all the hard work and dedication you have put into this project, with such skills you will be a great data analyst.

**I'm So Proud of you and your journey so far and I hope you will like my review!**

**I wish you Good Luck on your Journey Ahead, Stay Udacious and Happy Learning!**

## Code Functionality

- All code is functional and produces no errors when run.
- The code given is sufficient to reproduce the results described.

- The project uses NumPy arrays and Pandas Series and DataFrames where appropriate rather than Python lists and dictionaries.
- Where possible, vectorized operations and built-in functions are used instead of loops.

- The code makes use of at least 1 function to avoid repetitive code.

- The code contains good comments and meaningful variable names, making it easy to read.

## Quality of Analysis

✓

The project clearly states one or more questions, then addresses those questions in the rest of the analysis.

## Data Wrangling Phase

✓

The project documents any changes that were made to clean the data, such as merging multiple files, handling missing values, etc.

## Exploration Phase

✓

- The project investigates the stated question(s) from multiple angles.
- The project explores at least three variables in relation to the primary question. This can be an exploratory relationship between three variables of interest, or looking at how two independent variables relate to a single dependent variable of interest.
- The project performs both single-variable (1d) and multiple-variable (2d) explorations.

✓

- The project's visualizations are varied and show multiple comparisons and trends.
- At least two kinds of plots should be created as part of the explorations.
- Relevant statistics are computed throughout the analysis when an inference is made about the data.

## Conclusions Phase

✓

- The Conclusions have reflected on the steps taken during the data exploration.
- The Conclusions have summarized the main findings in relation to the question(s) provided at the beginning of the analysis accurately.
- The project has pointed out where additional research can be done or where additional information could be useful.
- The conclusion should have at least 1 limitation explained clearly.
- The analysis does not state or imply that one change causes another based solely on a correlation.

Wonderful Work, The limitations subsection is provided and reflects the current limitations of the analysis.

## Communication

- The code should have ideally the following sections: Introduction; Questions; Data Wrangling; Exploratory Data Analysis; Conclusions, Limitation.
- Reasoning is provided for each analysis decision, plot, and statistical summary.
- Interpretation of plots and application of statistical tests should be correct and without error.
- Comments are used within the code cells.
- Documented the flow of analysis in the mark-down cells.

There is reasoning properly provided for each analysis decision, plot, and statistical summary.

Visualizations made in the project depict the data in an appropriate manner (i.e., has appropriate labels, scale, legends, and plot type) that allows plots to be readily interpreted.

All plots are well made and easy to read!

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