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# Investigate a Dataset

REVIEW

HISTORY

## Meets Specifications

Dear Student,

Congratulations on passing this project! I am impressed with your communication and organisational skills in coming up with a structured report. Your awesome storytelling skills will make you a remarkable data scientist. Keep shining, you star! ★

Read the positive feedback below and I'm sure you'll deliver such stunning reports in future projects too. 😊

I wish you all the best for the rest of the program. 👍

Stay Safe. Keep Learning. Stay 🐼!

## Code Functionality

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

## Comments

Well done! The submitted code works well as it doesn't produce errors when run. Also, it's sufficient to reproduce the results described. ✅

I am impressed with the way you have added appropriate GIFs and images to improve the aesthetics of the project. They are appropriate and definitely make you project 10x worth reading. Keep it up with your awesome

creativity!

- 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.

## Comments

Excellent work using NumPy and Pandas functions to facilitate the work for this submission. 🍪

- 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.

## Comments

You have given comments and variable names. You've also implemented a custom Python function eloquently in the project.

## Quality of Analysis

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

## Comments

Nice job stating questions and addressing the questions throughout 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.

## Comments

You've used Markdown comments efficiently in documenting the project step-by-step. It is easy to understand and follow through. 😊

## 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.

## Comments

You've thoroughly investigated the questions from various angles, and also use both 1d and 2d explorations for several variables in consideration. 🍷

- 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.

## Comments

Visualising data requires a lot of patience and determination because it's not easy selecting the best visualisation to match with a given data type. Well enough, the project rightly builds descriptive visualisations using a variety of plots. 🙌

## 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.

## Comments

The conclusions and limitations section are properly documented. Well done! 👍

## 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.

## Comments

Great job describing every analysis decision and plot, stating the results obtained from that analysis. 🙌

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.

## Comments

Awesome! The plots are well labelled and easy to interpret. 👍

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