Investigate a Dataset

REVIEW | HISTORY

Meets Specifications

Congratulations on passing the project! 🎉

You implemented all the necessary changes and have passed the project as a result.

Here's what you were able to accomplish in this project submission:

Code Functionality

✅ Your code is well written, modular and follows standard commenting and variable naming conventions. As a result, it is easy to understand.

Quality of Analysis

✅ Your questions are clearly stated and analysed in the report. It is understandable from the outset what you are trying to investigate in this project.

Data Wrangling

✅ The data wrangling steps in your project are well-explained and make sense for the nature of the analysis.

Exploration Phase

✅ At least 3 variables are explored for analysis from the dataset, and the exploration includes both univariate and multivariate analysis. Additionally, at least 2 kinds of plots are included.

Conclusions Phase

✅ The report is capped off with a well written summary of the project, including the limitations of the dataset or the analysis done.

That's quite an accomplishment! You show a clear understanding of using Python & Statistics to perform exploratory data analysis given a new dataset. This is no small feat and you should be really proud of yourself! 🚀

I wish you the best of luck for the rest of the Nanodegree! 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.

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.

✓ 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.

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