UDACITY

Return to Classroom

Investigate a Dataset

REVIEW

HISTORY

Meets Specifications

Dear student,

Thank you for your submission after correcting the changes mentioned in previous review. You have done a great job in the project.

Your project is really written very well and you have covered every rubric. You have included several visualisations both 1d and 2d which are labelled correctly and findings for each analysis has been written out. Great job!! I would also appreciate your work in Data Wrangling section where you have cleaned the dataset to perform the further analysis in the project. Well Done 👍 Lastly, you have included Conclusions along with Limitations in the report. Great Job !!!

It was delightful reviewing your work as it was well thought-out. I encourage you to keep up the good work as it will make you a great Data Analyst. Way to go!

Congratulations on passing the project. 🎉🎉

Keep it up and Happy learning 😀

Additional Resources

Here is a link below to learn about different types of visualisations and a topic that is mostly neglected in Data Science Projects.

- https://towardsdatascience.com/exploratory-data-analysis-topic-that-is-neglected-in-data-science-projects-

9962ae078a56a

- https://towardsdatascience.com/the-next-level-of-data-visualization-in-python-dd6e99039d5e

Code Functionality

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

The code is functional and did not have any errors.

- 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.

Awesome

- You have used NumPy, Pandas, and DataFrames wherever appropriate. The good thing about python is that there are many built-in functions which we can directly use for the analysis.
- You have used built in functions to carry out the analysis. Great job !!!

- 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.

Awesome

- Your code is very well commented in each cell. Commenting the code not only helps the reader but also helps you whenever to go through this project in future. You can easily understand the steps which you have performed.

Quality of Analysis

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

Awesome

- You have written a short Introduction about the dataset and mentioned all the questions in this section itself which is really great. Writing the questions at the beginning helps us to understand the idea and motive of project. Excellent work 👍

Data Wrangling Phase

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

AWESOME WORK. 👍

You have covered this part of the project very nicely. The dataset is cleaned by dropping the values, handling the missing values.

Data wrangling is very important for any data analysis project because there are many unnecessary values which you do not require for the analysis.

I would really appreciate your hard work in this part.

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.**

Awesome

- You have investigated the questions raised from multiple aspects and angles.
- You have covered several variables in your analysis and made visualisations to support your questions.
- Additionally you have covered both 1d and 2d visualisations in your report.

- 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.

Excellent work done in making visualisations 👍

You have included several types of graphs to justify the questions that you have raised at the beginning of the project. Visualizing data requires a lot of patience and determination because it's not easy selecting the best visualization to match with a given data type.
Building variety of plots shows your understanding about the visualisations. Great work 👍

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.

You have written great Conclusions covering each aspect of the analysis. Additionally you have also included the Limitations section. 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.

You have provided the reasoning after each plot, making it easy to understand. Good work.

It is very important to communicate the results adequately; however, it is also very important to describe each activity, analysis, or graph. This will allow your audience to understand what you are doing and how you are

doing it. Moreover, reasoning makes your work organized, formal, and sophisticated.

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.

Good job! The project uses appropriate visualizations having suitable plot and axes titles. This is important to make the analysis more readable and could be easily interpreted.

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