



[Return to "Data Analyst Nanodegree" in the classroom](#)

Investigate a Dataset

REVIEW

HISTORY

Meets Specifications

Greetings Student,

This was a good implementation and I congratulate you for passing all rubric items with this submission. ✨ ✨ ✨ ✨

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!

Keep it up 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 code ran perfectly and did not produce any errors when run. Good.

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 project has 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 done a great job in this part.

The code makes use of functions to avoid repetitive code. The code contains good comments and variable names, making it easy to read.

Your code is properly commented and contain good variable names which is making your code easy to read.

Quality of Analysis

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

Good job with your questions!

COMMENTS:

Either you're given data and ask questions based on it, or you ask questions first and gather data based on that later, great questions help you focus on relevant parts of your data and direct your analysis towards meaningful insights. Questions should be measurable, clear and concise. They should be designed to either qualify or disqualify potential solutions to your specific problem or opportunity

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, and merging the files.

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. At least three variables are investigated using both single-variable (1d) and multiple-variable (2d) explorations.

Well done!

You did an extraordinary analysis joining both single-variable and multiple-variable explorations in your work.

COMMENTS:

Exploratory Data Analysis (EDA) is an approach for data analysis that employs a variety of techniques (mostly graphical) to maximize insight into a data set. The graphical techniques employed in EDA are often quite simple, consisting of various techniques of:

- 1) Plotting the raw data such as histograms, bihistograms, probability plots, lag plots, block plots, scatter plots.
- 2) Plotting simple statistics such as mean plots, standard deviation plots, box plots, and main effects plots of the raw data.

Remember:

What is very important when you analyze data is to stay focused on your questions. Build plots or statistical summaries which answer your questions, and not just because are nice.

The project's visualizations are varied and show multiple comparisons and trends. Relevant statistics are computed throughout the analysis when an inference is made about the data.

At least two kinds of plots should be created as part of the explorations.

Good job!

COMMENTS

Data visualization is the presentation of data in a pictorial or graphical format. It enables decision makers to see analytics presented visually, so they can grasp difficult concepts or identify new patterns.

Because of the way the human brain processes information, using charts or graphs to visualize large amounts of complex data is easier than poring over spreadsheets or reports. Data visualization is a quick, easy way to convey concepts in a universal manner – and you can experiment with different scenarios by making slight adjustments.

Data visualization can also:

- Identify areas that need attention or improvement.
- Clarify which factors influence customer behavior.
- Help you understand which products to place where.

Conclusions Phase

The results of the analysis are presented such that any limitations are clear. The analysis does not state or imply that one change causes another based solely on a correlation.

The results are clearly presented and analysis does not state that one change causes another based solely on a correlation.

Great work by including the limitations. 🍷

Communication

Reasoning is provided for each analysis decision, plot, and statistical summary.

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

Your analysis is written in explanatory terms allowing your audience to fully understand the work done and results. 🍷. In this direction, I like [this post](#) very much, it explains the importance of telling a history using Data.

As a suggestion, this project is a great opportunity for you to create a new repository in Github that becomes part of your online portfolio and allow potential employers to review your work, in case you are not familiar with Github, this is a [great post](#) and an [Udacity Course](#) for deeper understanding. This report defines your credentials, so it is important that you put special attention not just to the technical side of the project but also the communications side since this is a critical characteristic for any data scientist. For your reference, check this [Kaggle post](#) for further reference, as you can see this is really a hot topic in the data science world! 😊

Visualizations made in the project depict the data in an appropriate manner that allows plots to be readily interpreted.

Good job!

COMMENTS:

All visualizations are properly labeled, titled and have legends where necessary that depict the data correctly.

One of the most important steps in creating an impactful visualization is making sure all of its elements are labeled appropriately. The text components of a graph give your reader visual clues that help your data tell a story and should allow your graph to stand alone, outside of any supporting narrative.

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