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# Communicate Data Findings

REVIEW

CODE REVIEW

HISTORY

## Meets Specifications

Congratulations! ★

This is a fantastic submission! You have systematically approached this investigation, framed interesting questions and used your programming skills effectively to find justified answers for the same. Well done!

You have also learnt how to create an aesthetically pleasing slideshow using `nbconvert` that is able to convey the most important findings of your report to an audience.

I have included some links to useful resources in the individual comments. For example, *learning about interactive plots* would be a nice step forward at this point. Since EDA is often a precursor to building ML models, I also recommend reading this resource which summarizes the process in a succinct manner :

- [Exploratory data analysis, feature selection for better ML models](#)

I hope this was a great learning experience. Keep learning and stay Udacious!

All the best for your future endeavors!

## Code Quality

All code is functional (i.e. no errors are thrown by the code). Warnings are okay, as long as they are not a result of poor coding practices.

Great! The code is functional.

The project uses functions and loops where possible to reduce repetitive code. Comments and docstrings are used as needed to document code functionality.

Nice work! Pandas has been used for most tasks and the usage of both code comments and custom functions has been demonstrated.

## Exploratory Data Analysis

The project appropriately uses univariate, bivariate, and multivariate plots to explore many relationships in the data set. Reasoning is used to justify the flow of the exploration.

Great! You have a nice collection of exploratory plots. You have covered Univariate, Bivariate and finally Multivariate plots as part of your investigation.

As part of an "extra reading", I recommend going through the below links. These will help with structuring your investigation in a logical and meaningful manner :

- [Five Rules of Data Exploration](#)
- [Data Exploration techniques to go from Data to Insights](#)

The [Python Graph Gallery](#) is an excellent resource for the various plot options available to you. Its separate module "[From Data to Viz](#)" allows you to view the appropriate plot types based on the relationship needed to be shown!

Questions and observations are placed regularly throughout the report, after each plot or set of related plots.

Nice work! Your commentary is clear and concise.

Visualizations made in the project depict the data in an appropriate manner that allows plots to be readily interpreted. This includes choice of appropriate plot type, data encodings, transformations, and labels as needed.

Great! Your plots are sufficiently detailed to make them interpretable.

#### SUGGESTED READING

While there are many Python plotting libraries, only a handful can create interactive charts that you can embed online and distribute. To understand this, I recommend this post :

- [5 Python Libraries for Creating Interactive Plots](#)

## Explanatory Data Analysis

A section in the submitted materials includes a summary of main findings that reflects on the steps taken during the data exploration. The section also describes the key insights that are conveyed by the explanatory presentation.

Great! You have included a readme document that summarizes the main points of your investigation.

As some additional reading, I recommend this post which gives a short summary about the usefulness and features of a great readme file :

- [Readme 101](#)

A slideshow is provided, with at least three visualizations used in the presentation to convey key insights. These key insights match those documented in the summary. Each visualization is associated with comments that accurately depict their purpose.

Nice work! You have included an HTML slideshow that contains a selection of your *key insights*, as expected!

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It was interesting to note your key insight :

"Focusing on the patients who had higher missed appointments rates such as younger ages, Patients without comorbidities with chronic diseases such as hypertension and diabetes, by ensuring shorter leading days, and sms reminders at least 5 days and earlier to the appointment day, shall improve their commitments and increase the planning accuracy and so, resources utilization shall improve as well."

All plots in the presentation have an appropriate title with labeled axes and legends. Labels include units as needed. Plot type, encodings, and transformations are all appropriate.

This is the culmination of your investigation. Since this slideshow is meant to be consumed by others, it is important that its contents are *finalized* and well *polished*! Your presentation meets these requirements. Nice work!

I would highly recommend referring the following Duke University's document regarding Chart Dos and Don'ts :

- [Top 10 Dos and Don'ts for Charts and Graphs](#)

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