



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

Communicate Data Findings


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.


Note. You delved into meaningful relationships the appropriate amount required for skilled exploration. So No, you did not "get into the weeds". This is apt and actually recommended in Data Explorations such as this! Ideally, we do now want to miss out on anything useful from a dataset, and that means '*getting your hands dirty*', even if you don't end up finding something useful in the end. The commentaries were also very detailed and not **too verbose**! They do seem to be from someone from an academic background!

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 work! You have incorporated the suggestions given by the previous reviewer. This is very much appreciated as these were just *suggestions* and hence you could have chosen to not do that! 

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


Pandas has been used effectively for data wrangling purposes! Comments are also extensively used in order to document the code functionality. Nicely done! 

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.

As stated by the previous reviewer, you have prepared a nice selection of exploratory plots! 

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

You commentaries are detailed and very nicely explains your thought process. This is a very hard thing to do and your eye to detail needs to be appreciated here! 

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.

Plots are apt and sufficiently polished for this section. 

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.

Your readme document contains all the required information, and then some! Awesome!



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! The slideshow submitted looks very professional and aesthetically pleasing, especially after making the changes suggested in the previous review. The commentary is also again, very detailed and dare I say, *academic* in nature. I loved it!



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.

Plots are apt, completely polished and designed carefully, keeping aesthetics in mind. Nice!



[Download Project](#)

My comments for reviewer - 5 stars

Yes!! Thank you for the detailed comments on everything, even my questions about 'the weeds' and 'verbosity'. I enjoyed working on this project and had to rein in my interest to go even deeper and write even more. As noticed, I do have an academic background and come from a time when MS Access was the only tool for small business marketers to investigate the facts. I'm lovin' the changes! Thank you!