Communicate Data Findings

REVIEW | HISTORY

Meets Specifications

Rate this review

Congratulations

You've made it!!
This is a fantastic submission!

You took a lot of variables from the dataset and did an excellent job of systematically exploring it and coming up with some interesting findings. I've really liked the way you've structured your project! Please do check specification comments.

Be a lifelong learner. Stay Udacious!

You can have the greatest idea in the world, but if you can't communicate it to others in a way that gets them to listen to you, your idea will do you very little good. In other words, You can create awesome visualizations and explore datasets but if you can't communicate (using slide-deck presentation) to others in a way that gets them to make better decisions (data-driven), your exploration will do very little good.

Always believe in your talent, you have the potential and skills to make great things 🎉🎉🎉
I wish you all the best with your Nanodegree and your career! 🍀

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.**

All the code present in the notebook seems functional. Well done!

Before submitting, it's always recommended to use `Restart and Run All` option present in the `kernel tab` of jupyter notebook (both exploration and explanation) to make sure every cell runs without errors.

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

Comments have been used in the notebook to document code functionality. Great work!

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.**

A very nice job with the exploratory data analysis! The use of univariate, bivariate, and multivariate plots to explore many relationships in the data set are appropriate. Also, reasoning is used to justify the flow of the exploration. After each plot or related set of plots, usually, a markdown cell describing what you observed from the preceding plots is correctly included. Well done!

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

The flow of the exploration is always documented in a clear manner, with questions and observations. Well done!

#1 rule for data science:

Always start with the problem before you start with the data.
Starting with a question on what to solve is imperative.

✓ **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.**

You really did a fantastic job with the plots! You have used different types of plots. Awesome!

For exploratory analysis, visualizations do not need to be completely polished. So titles and axis labels don't need to be implemented if the rest of a plot is appropriate to the context where it's found.

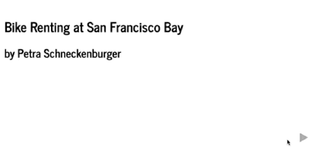
Explanatory Data Analysis

✓ **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.**

A pdf file with the summary of main findings is correctly included. You should elaborate this file as this is the first file anyone will see when looking at your project.

✓ **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.**

A very nice job including various visualizations. Each of them is associated with comments that accurately depict their purpose.



FYI, Present Your Data Science Projects with Jupyter Notebook Slides!

✓ **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.**

Every plot is detailed and has appropriate labels and legends. Well done! Although, for some of the plots, x axis labels are missing (mostly for WeekDays) but it can be clearly interpreted from the plot.

Plot Dimensions

Suggestion from co-mentor : Using a fixed plot dimension for all of your visualizations helps (so that the reader doesn't have to re-focus on each slide (and the increased width means that you don't have to angle some of your tick labels)).

An A4 (portrait) page size is:
`plt.figure(figsize=[ 11.69, 8.27])`

However, the aspect ratio for most computer screens (and projectors) is 16/9. So, to use the A4 (portrait) height with a 16/9 aspect ratio, you would use
`plt.figure(figsize=[14.70, 8.27])`

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