UDACITY

Return to "Data Analyst Nanodegree" in the classroom

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 mentioned some improvements so please go through the individual comments. 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.

Code looks functional and well written 👍🏽

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

Pandas vectorized operations have been used effectively for Data Wrangling. Comments have also been used for code documentation. 👍

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 work! You have a nice collection of exploratory plots. 👍

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

Questions and Observations are used nicely to help a reader understand the flow of the exploration. 👍

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 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.

Readme document is well detailed and summarized your investigation well. 👍

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.

Great! A proper `nbconvert` generated slideshow has been submitted! It serves its purpose as an *Executive Summary* of your findings very well. 👍

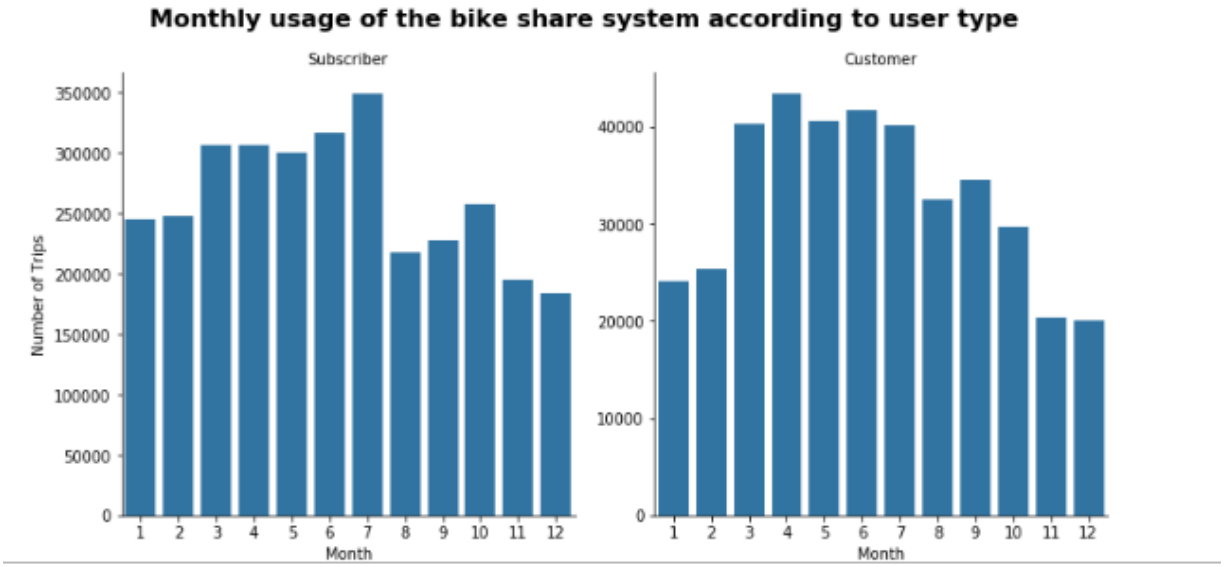
All plots in the presentation have an appropriate title with labeled axes and legends. Labels include units as needed. Plot type, encodings, and transformations are all appropriate.

Great work! Plots are well polished! 👍

The only minor issue here, is the presence of the chart junk above (some of) your plots. Since, you know about these and have mentioned in the notes, I am passing this specification. I will also explain below why this is coming, and how to remove them in the following section.

```
plt.figure(figsize = [10, 6]);
g = sb.catplot(data=dfc, x='start_time_month', col="user_type", kind='count',
               sharey = False, color = base_color);
g.set_axis_labels("Month", "Number of Trips");
g.set_titles("{col_name}");
g.fig.suptitle('Monthly usage of the bike share system according to user type',
               y=1.05, fontsize=16, fontweight='semibold');
plt.savefig('image08.png');
```

```
<Figure size 720x432 with 0 Axes>
```



These are coming because you have include the *matplotlib* config command `plt.figure(figsize = [10, 6]);` in association with *figure level plots of seaborn*, which is not ideal! These figure level plots,like `catplot, FacetGrid` etc have their sizes controlled by parameters `height` and `aspect`. Adding the matplotlib command, creates a seperate layer, which is causing this issue.

For more understanding, read the following link :
https://stackoverflow.com/questions/54959764/seaborn-factorplot-generates-extra-empty-plots-below-actual-plot

DOWNLOAD PROJECT

RETURN TO PATH