UDACITY

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Communicate Data Findings

REVIEW
CODE REVIEW
HISTORY

Meets Specifications

Congratulations...!!! 🎉

- This was a great implementation and I congratulate you for passing all rubric items with this submission and including the changes mentioned by the previous reviewer too..
- The submission does a really good job in many phases and I appreciate your hard work in achieving that.
- I really liked the **flow of code and way analysis have been drawn systematically**..!! Also, varied types of graphs have been shown, accompanied with on the spot conclusions. Good work..!!
- I have given some useful tips and suggestions with links to help you out in your future assignments.. I suggest you to check them out in your free time..!!
- 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! 👏🏼

All the best for your journey ahead..!!! 😄

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.

Good Work..!!! 💯

The code works well as it doesn't produce errors during the run. Also, it's sufficient to reproduce the results described.

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

The project nicely avoids many of the repetitive blocks of code by using pre-defined functions in the submission!!

- I also appreciate that you have organised your code and have taken care of markdown cell and code cells as per relevance. This is a good portrayal of a planned and organised submission!!
- Comments and appropriate variable names are essential for a good coder.
- These not only guide the viewer through the code but also helps in understanding it easily. You have portrayed these skills well... Keep up this good work in future too...👍

Learning notes:

- User-defined functions are reusable code blocks; they only need to be written once, then they can be used multiple times. They can even be used in other applications, too.
- These functions are very useful, from writing common utilities to specific business logic. These functions can also be modified per requirement.
- The code is usually well organized, easy to maintain, and developer-friendly. Which means it can support the modular design approach.
- As user-defined functions can be written independently, the tasks of a project can be distributed for rapid application development.
- A well-defined and thoughtfully written user-defined function can ease the application development process.
  Click Here

Exploratory Data Analysis

The project (Parts I alone) contains at least 15 visualizations distributed over 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..!!

The flow of code is definitely interesting for the reader and univariate, bivariate and multivariate analysis are also represented in relevant order..!! Nicely done..!

Links for reference:

- Effective Visualisations Tips
- Data Visualisations comparison
- Guide to Plotting Multivariate graphs
- Univariate and Multivariate charts

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

> **Tip**: Use the ""Question-Visualization-Observations"" framework throughout the exploration.
>
> **Tip**: For the Part I notebook, use *File > Download as... > HTML or PDF* menu option to generate the HTML/PDF.

Well done.. 😄 👏

You have done a nice job asking questions, describing every analysis decision and plot stating the results obtained from that analysis...!!!

- **Including the conclusions after the visualisations give the reader on the spot clearance of the findings.**

Points to remember:

- While making documentation it is important to view your submission from the audience perspective so as to make it more and more indulging.
- One should never hesitate to mention the thought process of any finding or steps in analysis via markdown cells where appropriate so as to establish a connection with the audience.

Learning notes:

- Data Visualisations questions to be asked before

"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 formatting (title, axis-labels) as needed.

> **Tip**: Do not overplot or incorrectly plot ordinal data."

- All the plots have been drafted with relevant labelling.✅
- Data transformations have been relevantly carried out when required.✅
- The plots can be readily interpreted..✅

Explanatory Data Analysis

The README.md must include a summary of main findings that reflects on the steps taken during the data exploration. It should also describes the key insights that are conveyed by the explanatory presentation.

> **Tip**: The README.md summary is based on the exploration report (Part I notebook) and will guide your explanatory slide deck (Part II notebook) .

The Readme file definitely represents the relevant summary of findings and also key insights have been stated..!! Nicely depicted..!! 😄

- A slideshow (HTML file) is provided, with at least 3 visualizations, to convey key insights. Only selective plots are added to the slideshow from the exploratory analysis.
- The total number of visualizations in the slideshow is less than 50% of the number of visualizations in the exploratory analysis. For example, if the exploratory analysis (Part I) has 18 visualizations, the slideshow can have (3 - 8) visualizations.
- The key insights in the slideshow match those documented in the README.md summary.
- Each visualization in the slideshow is associated with comments that accurately depict their purpose and observation.

> **Tip**: For Part II notebook, use the `jupyter nbconvert` command to generate the HTML slide show.

The slideshow is provided with more than three visualizations in the submission to convey key insights.

- Each visualization is associated with comments that accurately depict their purpose. Great Work!

All plots in the slideshow are appropriate, meaning the plot type, encodings, and transformations are suitable to the underlying data.

All plots in the slideshow are polished, meaning all plots have a title with labeled axes and legends. Labels include units as needed. In other words, each plot must have - chart title, x/y axis label (with units), x/y ticks, and legend.

The analysis and visualizations throughout the presentation are well drafted.

- The chart contains a clearly represented title that explains the details of the presented graphs. ✅
- Both axes have suitable titles with good naming conventions. ✅

This attention to detail really goes a long way to help communicate your results to an audience. Good work..!! 👍

⤓ **DOWNLOAD PROJECT**

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