

PROJECT

Explore and Summarize Data

A part of the Data Analyst Nanodegree Program

PROJECT REVIEW

CODE REVIEW

NOTES

Meets Specifications

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Awesome work! There isn't much I can suggest to improve this project further. I suggest that you publish your article, you can do so from Github using [Github pages feature](#). Let me know when you have published your article as we are very interested to read the final version of this.

Code Functionality

- ✓ All code is functional (e.g. No Error is produced and RMD document is not prevented from bring knit.)
- ✓ The project almost never uses repetitive code where a function would be more appropriate. The code references variables by name instead of using constants or column numbers.

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Project Readability

- ✓ All complex code is adequately explained with comments. It is always clear what the code is doing and how and why any unusual coding decisions were made.

Well done for properly commenting your code, making it really easy to follow. Commenting style is subjective matter, but for myself, I always comment my code on areas that does any of the following:
 - 1. Adds / modifies variable(s) to the dataset.
 - 2. Creates a function.
 - 3. Some really tricky plotting techniques that I may want to revisit later.
- ✓ The code uses formatting techniques in a consistent and effective manner to improve code readability. All lines are shorter than 80 characters.

Code lines are shorter than 80 characters.
- ✓ Markdown syntax is used in the RMD file to improve readability of the knitted file.

Quality of Analysis

- ✓ The project appropriately uses univariate, bivariate, and multivariate plots to explore most of the expected relationships in the data set.
- ✓ Questions and findings are placed between blocks of R code regularly so it is clear what the student was thinking throughout the analysis.
- ✓ Reasoning is provided for the plots made throughout the analysis. Plots made follow a logical flow. Comments following plots accurately reflect the plots' contents.
- ✓ The project contains at least 20 visualizations. The visualizations are varied and show multiple comparisons and trends. Relevant statistics (e.g. mean, median, confidence intervals, correlations) are computed throughout the analysis when an inference is made about the data.
- ✓ Visualizations made in the project depict the data in an appropriate manner that allows plots to be readily interpreted. Choice of plot type, variables, and aesthetic parameters (e.g. bin width, color, axis breaks) is appropriate.

Good job making sure recently mentioned plot more readable.

count

Good Standing Delinquent

BorrowerState

The leftmost bars seem to be for unknown state. Try adding "Unknown" tick label there to improve this plot further. This is a minor suggestion so it shouldn't penalize review of this specification.

Rate this review
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Final Plots and Summary

- ✓ The project includes a Final Plots and Summary section containing three plots and commentary. All plots in this section reflect what has been explored in the main body of the analysis.
- ✓ The plots are well chosen and the plots fulfill at least 2 of the criteria. The plots are varied and reveal interesting trends and relationships.
- ✓ All plots have appropriately selected variables and are plotted in a way that accurately conveys the data/information (i.e findings in Final Plot 1 do not depend on the findings of Final Plot 2).
- ✓ All plots are labeled appropriately (axis labels, plot titles, axis units) and can be read and interpreted easily. Plots are scaled appropriately.

For plot 3 again, it might be best if you resize it to larger size with `fig.width` and `fig.height` knitr chunk options to make sure all labels are readable.
- ✓ The reasoning and findings from each plot are explained and the text about each plot is descriptive enough to stand alone. Comments reflect the contents of the plots that they are associated with.

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Reflection

- ✓ The project includes a Reflection section discussing the analysis performed.
- ✓ The section reflects on how the analysis was conducted and reports on the struggles and successes throughout the analysis. The section provides at least one idea or question for future work. The section explains any important decisions in the analysis and how those decisions affected the analysis.

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