

Practice Peer-graded Assignment: Visualization and Imputation

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Us and Singapore market analysis

[Discussions](#)

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July 21, 2020

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PROMPT

Investigate the new dataset and upload a visualization or multiple visualizations that summarize the nature and extent of the missing data. Be sure to include text to make your visualization clearer. Hint: You can add multiple plots to one figure in Python with matplotlib using the [.subplots method](#)

Missing Data Analysis



Visualisation of the nature and distribution of the missing data in the dataset

RUBRIC

Did the learner upload at least one visualization related to the nature and extent of the missing data in the new AAVAIL dataset?

- ☐ 0 pts
No
- ☐ 1 pt

Yes

Did the learner add labels, titles, and/or other elements to help make their visualization(s) clearer?

- ☐ 0 pts
No
- ☐ 1 pt
Yes

PROMPT

Based on your investigation of the missing data, design and implement an imputation technique (or multiple techniques) to replace them. Describe your approach in 3-5 sentences. Be sure to include a brief discussion of the assumptions you made about the missing data, if any, that led you to implement this particular imputation strategy.

1 - Number of streams was filled with the average of the streams in the dataset for each region.

2 - On subscriber type, since the proportion of missing data was much smaller, an extra category was added to represent it.

3 - The strategies were chosen based on type of data and simplicity for initial analysis.

RUBRIC

Did the learner describe a reasonable strategy for imputing the missing data?

- ☐ 0 pts
No
- ☐ 1 pt
Yes

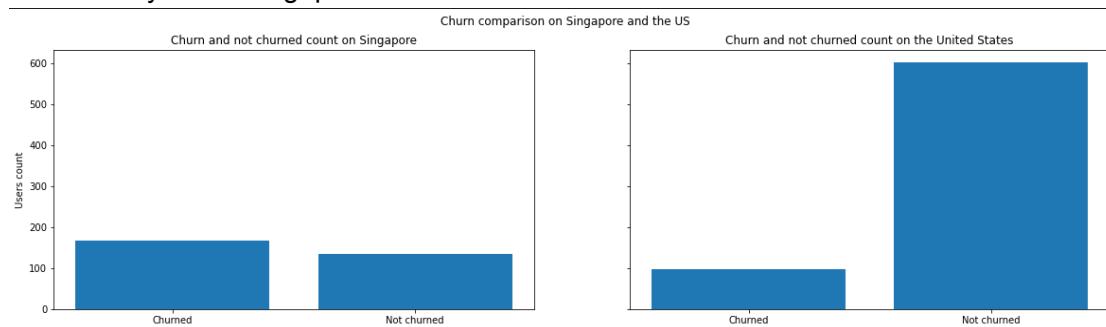
Did the learner discuss the assumptions they made about the missing data prior to defining an imputation strategy?

- ☐ 0 pts
No
- ☐ 1 pt
Yes

PROMPT

Recall from your earlier case work that you are trying to investigate AAVAIL's market situations in the United States and Singapore. Use your updated dataset (with the imputed data) to create a summary visualization or visualizations that compare and/or contrast AAVAIL's market churn in the US and Singapore. Note that in the dataset if a user is not subscribed (`is_subscribed = FALSE`) to the service they were previously subscribed to (`subscriber_type`), this indicates that they have churned.

Be sure to include text in the form of labels, titles, and descriptions to make your visualization clearer. Upload a file containing one or more of your visualizations. Hint: You can add multiple plots to one figure in Python with matplotlib using the [.subplots method](#)

Churn analysis for Singapore and the US

Churned and unchurned subscriber for each region

RUBRIC

Did the learner upload at least one visualization referencing AAVAIL's offerings in the United States and Singapore?

- ☐ 0 pts
No
- ☐ 2 pts
Yes

Does the learner's visualization highlight differences in AAVAIL's market churn situations in the United States and Singapore with reference to other variables in the dataset?

- ☐ 0 pts
No
- ☐ 2 pts
Yes

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Comments

Comments left for the learner are visible only to that learner and the person who left the comment.



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