

DS Proposal

Business Objectives

Python Queens have chosen to demonstrate their skills using Airbnb rental data sets. They aim to be able to thoroughly explain rental trends at different times in the year including, revenue comparisons between tourist cities and regular metropolitan cities, while also including correlations between amenities and revenue and rentals. It is also a goal to examine impact of COVID on data.

Background

The Python Queens chose Airbnb because it sparked shared interest amongst group member. The questions lend to practical use. The group members felt there was loads of data to examine pertaining to Airbnb.

Scope

Python Queens aim to use python for their data wrangling. A mix of R and python for analyses. To neatly present on Github.

Functional requirements

Data Wrangling: With multiple large datasets to wrangle and then merging them together. The group aims to insure datatypes are converted to proper formats for each analyses. The datasets need to be able to merge so they should remove missing data and match columns.

Data Analysis: The group has many questions as data wrangling begins it will be clearer which analyses will best work with recoded data.

Data Visualization: The group has all expressed a shared interest to use Tableau for visualization due to large range of options on visuals.

Presentation: Python Queens aim to present their process and their findings in a easy to understand manner for their instructor.

Personnel requirements

The group has multiple check in meetings set up through out the week. Scrum master rotates weekly. The groups sets up zoom meetings to brainstorm and help each other through their problem areas. They have weekly meetings with their instructor set up.

Delivery schedule

Week 1: Search for datasets after choosing a topic and end goal.

Week 2: Data wrangle marathon ending with a regroup to choose proper questions for recoded data.

Risks

The risks that may arise are such like natural disasters, power outages, family emergencies or broken software/hardware. They are eager to complete the program so there should be no motivation issues. The instructor and mentor are phenomenal so there is no concern of no help from them. The risk of this project being incomplete is minimal. They will be successful in completing this project!