

Select Equity Group L.P.

2021-22 Data & Insights Team PEY Intern - Data Science Challenge

Background

You are a data scientist living in New York City. Recently, you were introduced to Airbnb by a friend who is an active host in the Boston area. During your chat, your friend mentioned good earnings from his listings, which piqued your interest. You are now trying to explore the Airbnb market, and purchase a property to list on Airbnb. You have reasonably large savings, but expect proportionate returns from high initial investments.

Data

Available for analysis are two datasets - 2019 New York City Airbnb listings, as well as 2017 Boston Airbnb listings. Both datasets showcase crucial information about existing properties including, but not limited to, price, room type and neighborhood. You may consult with other publicly available datasets to aid your analysis, but it is not necessary.

NYC Airbnb Listings Dataset 	Boston Airbnb Listings Dataset 
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Your Task

Your goal is to utilize the data provided to you to determine the ideal property to purchase for your Airbnb listing. Below are some sample questions to guide your analysis - you may use them, or center your evaluation on different criteria.

1. Should the property be in Boston or NYC?
2. What neighborhood should the property be located in?
3. What type of property should you purchase (number of bedrooms etc.)?

Additionally, you should think about what data is missing - what additional data could help aid your analysis, paving the way for a more definitive conclusion?

Timeline

You have three days to complete the challenge, but it is **designed to take 3-4 hours**. If you find that you're spending substantially more time, or have any general questions, shoot us an email and we'll be happy to chat.

Metrics for Evaluation

We will schedule a call with you to discuss your analysis. You will be asked to present your ideas on your ideal Airbnb property. We don't have any specific expectations on presentation formats - this can be a verbal discussion, code walkthrough, showcasing of visualizations (really up to you). Be prepared to justify your approach and assumptions.