**DATS 6103 IDM Project Write-up (Rough Draft)**

1. **Overview of Project**
2. Why did we choose our topic? **(Team Members Input)**

* The dataset met the requirements, such as at least 4000 observations (4000 rows of data) and eight or more relevant variables/features (eight plus columns of useful data.
* Team members used AirBnB in the past and was curious about how an AirBnB in Washington, D.C., area was rated by the customers over a ten years period.
* We model rating outcomes based on a number of different variables, such as structural characteristics of the property, the location of the property, the host’s behavior, the ratings of previous renters and the year in which it was rented.
* … more TBD …

1. What prior research and analysis have been done on this topic? **(Robert’s Tasks)**

… TBD …

1. Information about the dataset we used. **(Robert’s Tasks)**

* The Inside Airbnb dataset file, listings.csv, has 6542 rows and 75 colunms of data including the id column.

1. Any unusual EDA results that is worth mentioning**? (I think Henry said, “He will do!)**

… TBD …

1. **Our SMART Question, and how did they come up? (I think Ambar & Nena worked this task)**

* What are the most important features for predicting an AirBnB’s rating in the city of Washington, DC from 2013 to 2023? ***(This question needs to be little more specific, per Prof. Lo’s feedback!)***
* … more TBD …

1. **Our models or machine learning algorithms. Score or evaluate our models. *(Open for someone to do)***

* Multiple Linear Regression, Decision Tree Regression, and Nearest Neighbors Regression.

1. **Interpret our results. *(Open for someone to do)***

… TBD …

1. **What predictions can you make from your models? Examples? *(Open for someone to do)***

… TBD …

1. **Draw conclusions. How do these answer the SMART questions? *(Open for someone to do)***

… TBD …

1. **References (APA Citation Style, 7 th edition) (Robert’s Task)**

… TBD …