**Airbnb Price Recommendation System**

**PROJECT PROPOSAL**

**TEAM MSE**

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| **WHY IS THE PROJECT NECESSARY?** | 1. Airbnb clients want to know if the listed price of an apartment is reasonable given its features. 2. New hosts want to know the price to set for their apartments. | | |
| **OBJECTIVES** | To build a system that recommends price of an Airbnb apartment based on its features using a regression model. It can be used by Airbnb clients to compare the price of a specific apartment with the suggested price and also used by new hosts to price their apartments. | | |
| **PHASES OF WORK**  **& DESIRED**  **OUTCOME** | 1. Data collection using web scrapping - a dataset of Airbnb apartments in Manhattan including price, location, Amenities and other variables 2. Data cleansing - clean data ready to be used for building model 3. Data analysis and regression model building – a multivariate regression model that predicts price of an apartment given its features 4. Data visualization: graphically show the correlation between price and variables 5. UI design – User interface that can be used to input features and get suggested price | | |
| **TIMELINE** | | | |
| **PHASE** | | **TASK** | **END DATES** |
| 1 | | Data collection using web scrapping | 9 Nov |
| 2 | | Data cleansing | 12 Nov |
| 3, 4 | | Data analysis and regression model building; Data visualization | 14 Nov |
| 5 | | UI design | 18 Nov |
| 6 | | Documents | 25 Nov |