Machine Learning Project

Attached, you will find a dataset, containing real estate sales records in NYC. Using this dataset, we ask that you perform a few tasks and share your work with us. Overall, we expect this project would take 3-6 hours to complete, depending on your preferences and familiarity with the underlying concepts.

1. Perform exploratory analysis on this dataset and produce a showcase/storyline of a few interesting patterns and your observations. You will walk us through your findings during our session. You may use any tool you like, but a Jupyter notebook using Python is a common choice.
2. Build a simple model (e.g. regression or any type of ML model) that can predict SALE\_PRICE of a given case given all the other columns available in the dataset. Feel free to use any techniques and intermediate steps you deem useful in this effort. Analyze your model, its performance/characteristics/diagnostics, any interesting findings (for example, what factors affect prices the most)

**Important Note:** Please be prepared to discuss the approach in more detail and some ways in which your initial attempt can be further enhanced. In addition to that, please explain/interpret all the things you have done during this project.