**Airbnb Popularity Analysis**

*Abstract*

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Implemented a python project to identify characteristics that contribute to the popularity of a listing on Airbnb in New York City, and help Airbnb listing owners efficiently improve their listing popularity

* Utilized Selenium and BeautifulSoup to develop a web crawler and performed web scraping on airbnb.com to get information of more than 30,000 listings; Utilized Google Places API Nearby Search to collect the nearby subway and tourist attractions information of all the listings; Utilized pandas to clean and merge crime datasets.
* Utilized Matplotlib and Seaborn to conduct exploratory data analysis and produce data visualization on features like room type, amenities, and price.
* Utilized GeoPandas to plot NYC heatmaps to show distribution of listing characteristics.