# **Price Prediction Modeling for Airbnb Apartments in Berlin, Germany**

## **Introduction**

The objective of this project was to develop price prediction models for small to mid-size apartments hosting 2-6 guests in Berlin. These are a relatively popular option provided by Airbnb, so there is no shortage of data in this targeted range of accommodations. For this research report, three models were compared to determine which would be best used as a price prediction model. The three models that were compared were the OLS, Random Forest, and CART models.

## **Data Overview**

The data was sourced from [Inside Airbnb](http://insideairbnb.com/), a site that has collected publicly available listings information from the Airbnb website. This data was collected for the purpose of identifying the impact Airbnb has on a city. The data has been analysed, cleansed, and aggregated to create a space for researchers to discuss potential findings.