

AirBnb Superhost Prediction

Prathik Chukkapalli





TABLE OF CONTENTS

01

Problem Statement

02

Data

03

Modelling

04

Recommendations

What is a Superhost

A superhost is a classification that can be given to people who have put their houses and apartments to rent on AirBnb.

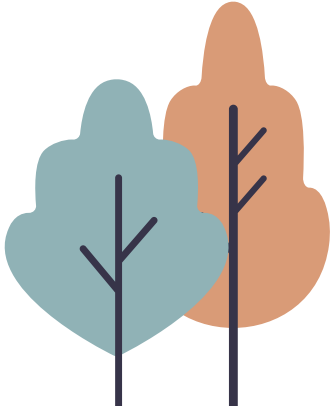


MYHOME
REAL ESTATE



Problem Statement

I am a data scientist that has been given the job to create a classification model that can be used to classify hosts as either regular hosts or superhosts based on the features I select.





Data

Comments

**Host Response
Rate**

**Host Response
Time**

Review Rating

**Reviews Per
Month**



Data Analysis

	Word Count	Reviews Rating	Reviews Per Month	Response Rate	Response Within Hour
Superhost	3143	4.9	2.3	99.1	4248
Regular Host	1420	4.7	1.4	96.4	3616

Modeling

Logistic Regression

Training Score: 0.827
Test Score: 0.726

Bagging Classifier

Training Score: 0.983
Test Score: 0.726

AdaBoost Classifier

Training Score: 0.751
Test Score: 0.734

AdaBoost Classifier

Training Score: 0.757
Test Score: 0.736



Conclusion/Recommendations

- Clearer on what makes a host a superhost.
- More features that measure hosts aptitude.
- Look at different states to see if the factors of what make a superhost changes

