DA3 EX2

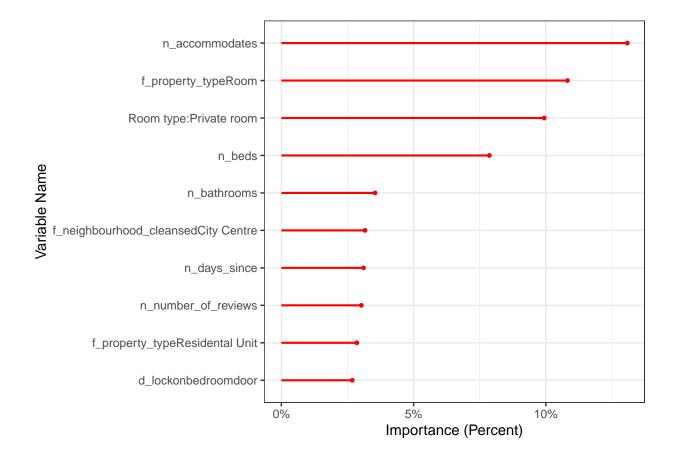
peter kaiser

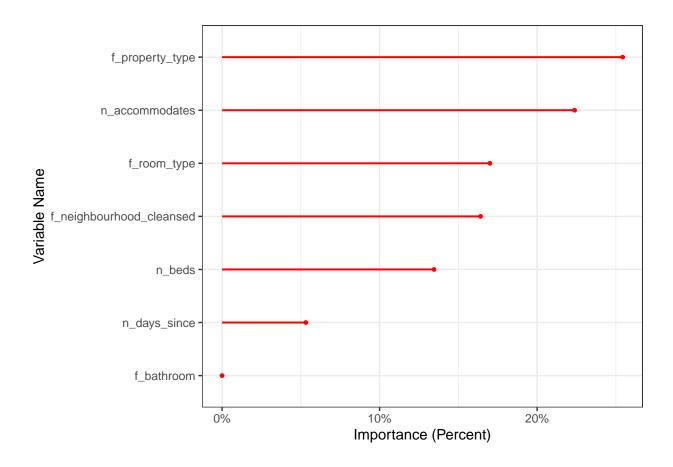
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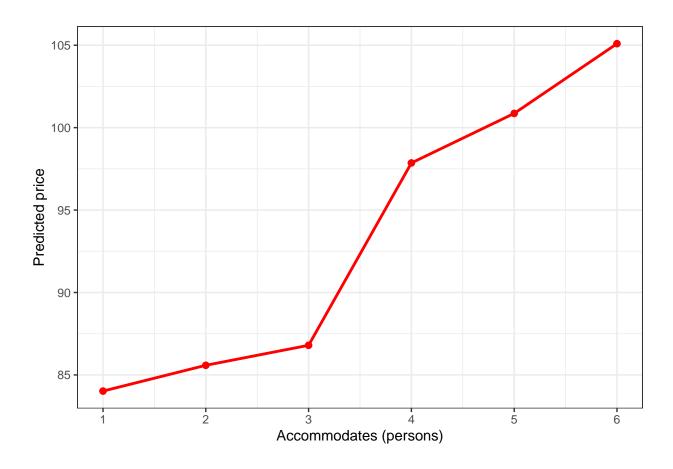
Airbnb price prediction for Manchester

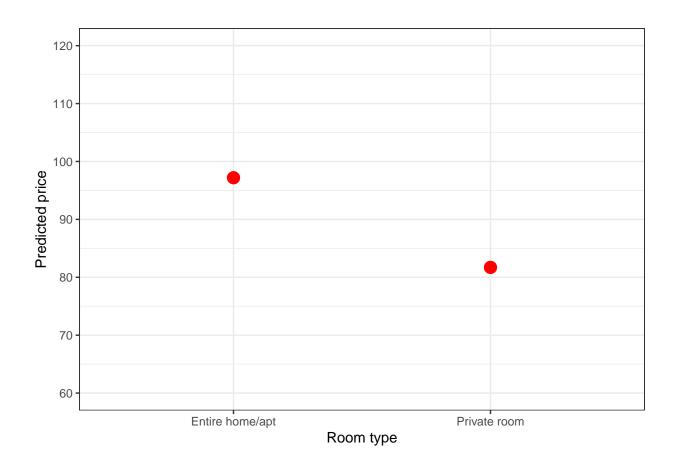
Introduction

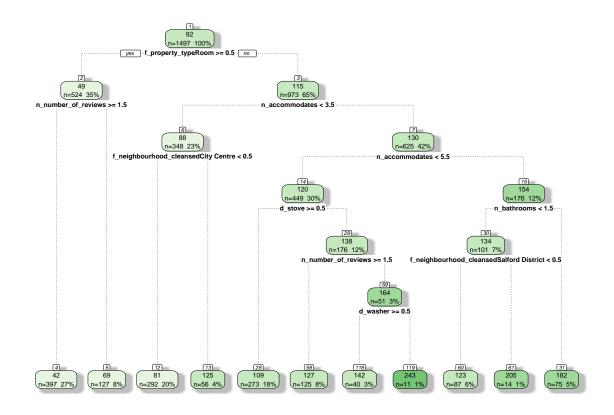
The aim of this project to help a company that operates in Manchester and rents small and mid-size apartments to prize their units. The data is from http://insideairbnb.com/get-the-data.html and is from the 21st of December 2021. I built 5 different models and horseraced them to see which model performed the best.











	CV RMSE
OLS	58.31478
LASSO (model w/ interactions)	58.78068
CART	60.80508
Random forest 1: smaller model	57.89759
Random forest 2: extended model	57.65785
GBM	57.99805

	Holdout RMSE
OLS	63.18380
LASSO (model w/ interactions)	64.68235
CART	64.65796
Random forest 1: smaller model	63.04198
Random forest 2: extended model	61.49551
GBM	61.12473