

Phoenix Market Price Predictor

Created by: Dawn Belbin

Project Background: Casual real estate investors often wonder what a property is worth and what features contribute to its value.

Project Objectives: Based on a set of quantitative inputs provide the user with the ability to predict the value of a property.



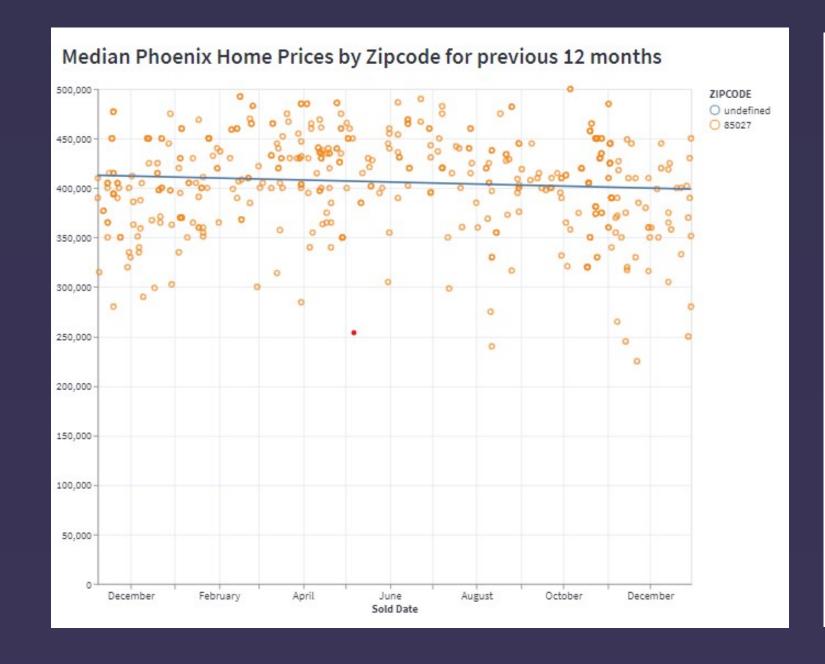
Model Selection: Random Forest Regression

Selection Criteria: Highest R^2 value and lowest MAE value of tested models

Input Features for Model: Zip code, number of bedrooms, number of bathrooms, square footage of house, lot size, year built, pool, HOA, and mortgage rate.

Output: Using the calculator to predict the value given specific inputs, or look at trend, correlation and median statistics of the underlying data.

Trend by Zip Code



Median statistics

Median statistics based on Zip Code, Pool and HOA Modian statistics based on Zip Code, Pool and HOA BEDS BATHS SQFT LOTSIZE YEARBUILT RATE 85003 N N 360,000.0000 3.0000 1.0000 1,148.0000 6,500.0000 1,926.0000 4.4200 85004 N N 363,300.0000 3.0000 2.0000 1,139.0000 6,333.0000 2,021.0000 5.8100 85004 Y N 363,300.0000 3.0000 2.0000 1,139.0000 6,218.0000 2,021.0000 6.6600 85006 N N 400,000.0000 3.0000 1,2000 1,246.0000 1,940.0000 6.1550 85007 N 350,000.0000 3.5000 2.0000 1,312.0000 7,375.0000 1,928.5000 6.9300 85008 N N 382,000.0000 3.0000 2.0000 1,453.0000 5,815.0000 1,954.0000 5.3000

Overall Correlation of Home Features

