



Housing Data Analysis

Using Kings County Data

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Business Problem

Business Opportunity

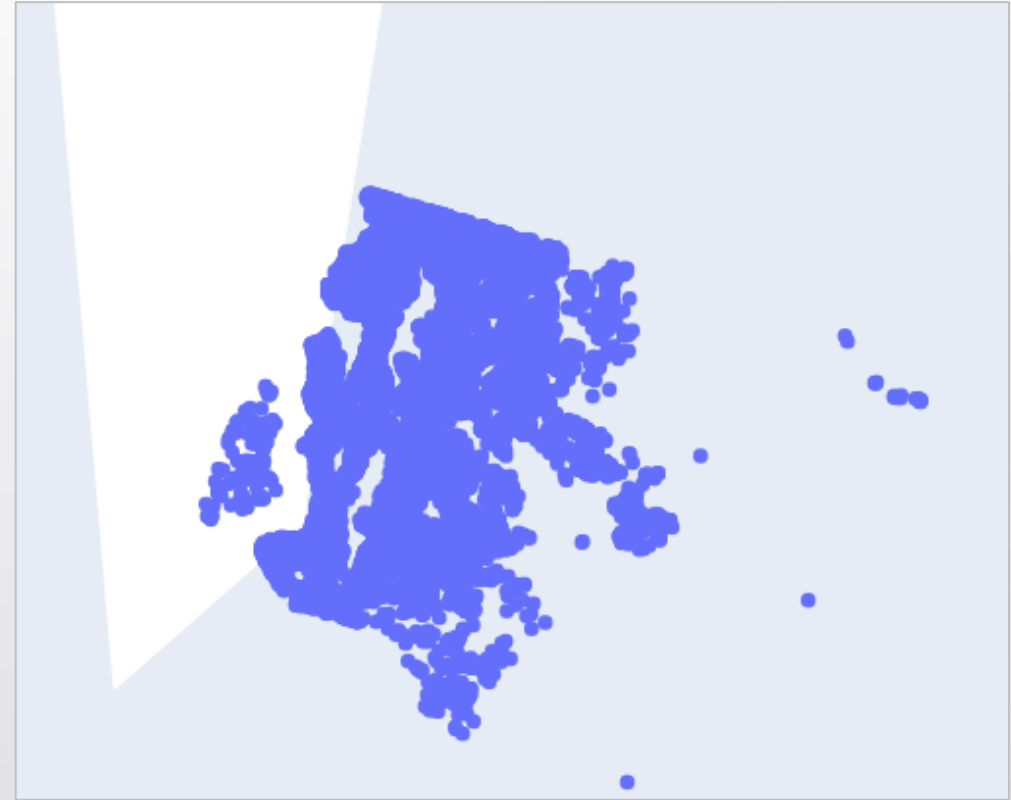
Middle class buyers are currently facing a shortage of available and affordable inventory due to the increase in demand during 2020, driven by Covid

Project Goal

Understand which features a home should include at the median price range in order to effectively design new homes for this consumer

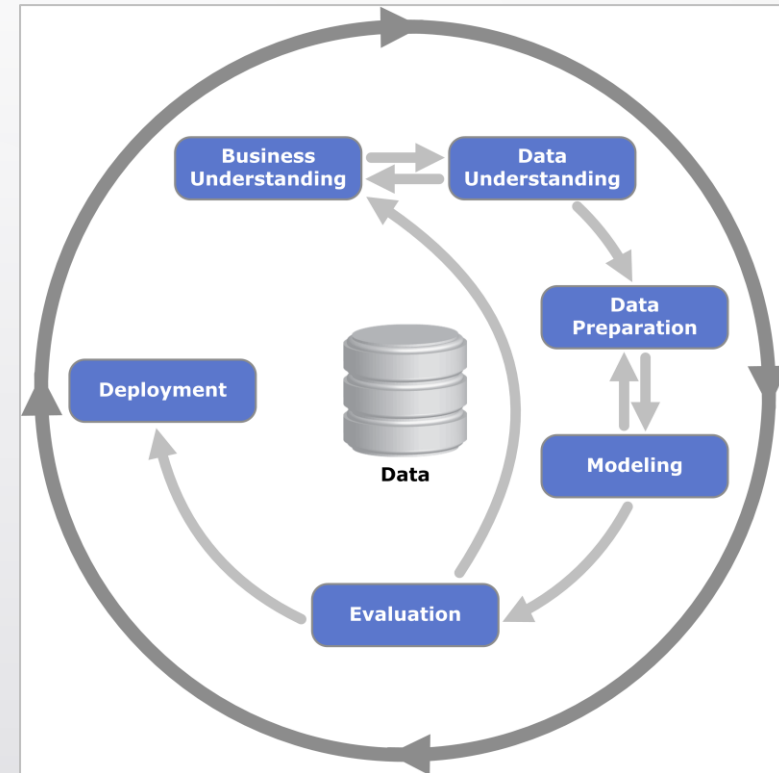
Data Understanding

- ❖ The data used includes house sale prices and conditions from houses sold through 2014-2015 in the Seattle area
- ❖ These houses were built as early as 1900 and as late as 2015
- ❖ The data includes several variables that describe the house, its location, and its condition



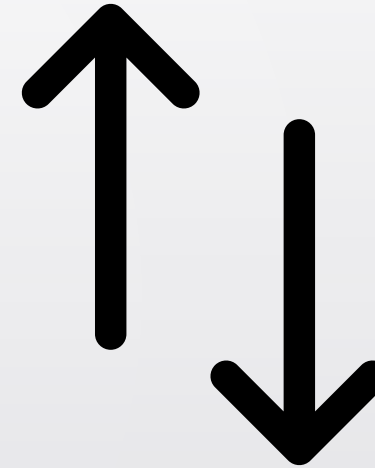
Methodology

- ❖ This project follows the cross-industry process for data mining or CRISP-DM
- ❖ Business understanding was applied to the data in order to create a relevant model*
- ❖ Data was cleaned and edited until model contained most accurate and relevant information



Results

- ❖ Features that drive value in homes for our target buyer are:
 - ❖ Size of the home interior
 - ❖ Number of bathrooms (more so than bedrooms)
 - ❖ High construction quality and materials
- ❖ The value is significantly decreased where:
 - ❖ Construction quality is average or low
 - ❖ House is further away from the city center



Recommendations

- ❖ Focus on maximizing the living area of the house over the yard size, or adding a basement
 - ❖ Buyers will likely sacrifice lot size to be closer to city
- ❖ Use high quality construction methods
 - ❖ This may increase the budget but will be worth the investment
- ❖ Build multi-floor homes and include ample bathrooms to reflect what buyers are looking for



Suggestions for Future Work

- ❖ Gather more recent data with a wider date range
- ❖ To make the model more generalizable, include data from multiple markets
- ❖ Pull in additional variables on neighboring lots to make recommendations on structure of development



THANK YOU!

