

The background is a dark blue gradient. On the left, there are two overlapping geometric shapes: a blue parallelogram and a light green parallelogram. Below these, a circular inset shows a detailed, grayscale image of a circuit board. In the top right corner, there is a faint, stylized pattern of white lines and squares, resembling a circuit or a data visualization.

# King County House Price Prediction

Creating a model that aims at predicting home sale prices in King County.



# Overview

I work as a Junior Data Scientist at Proptech Properties Limited. I have been tasked with investigating King County Data to draw insights to help the company optimise on their sales.



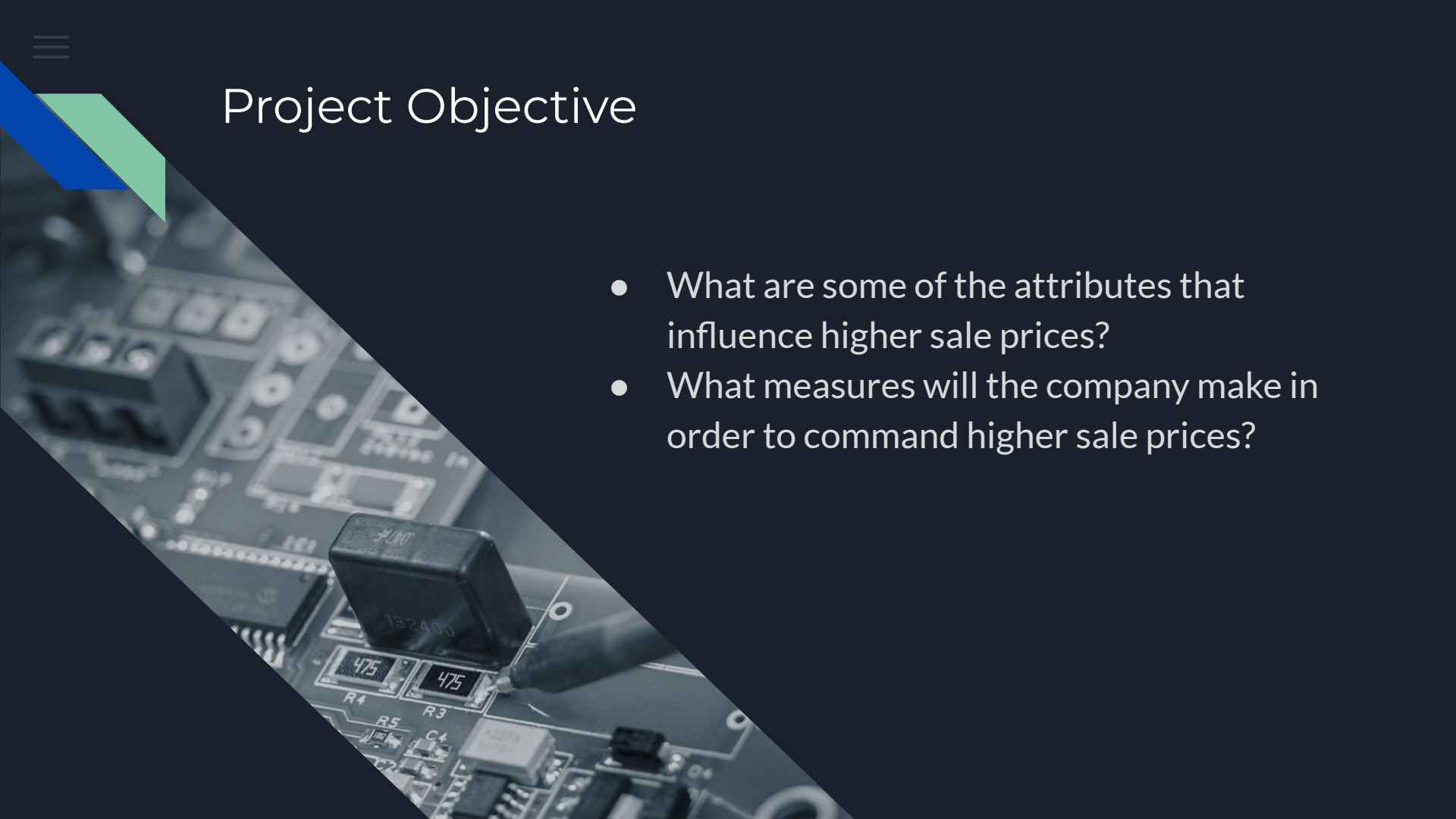
# Problem Statement

In this project, I looked at the the various features that influence the price of a home in King's County. I analyzed the features and built models that would predict the price of the home.





# Project Objective

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- What are some of the attributes that influence higher sale prices?
  - What measures will the company make in order to command higher sale prices?

# Target audience

The stakeholders of PropTech Properties Limited who consist of the shareholders, management and employees of the company.



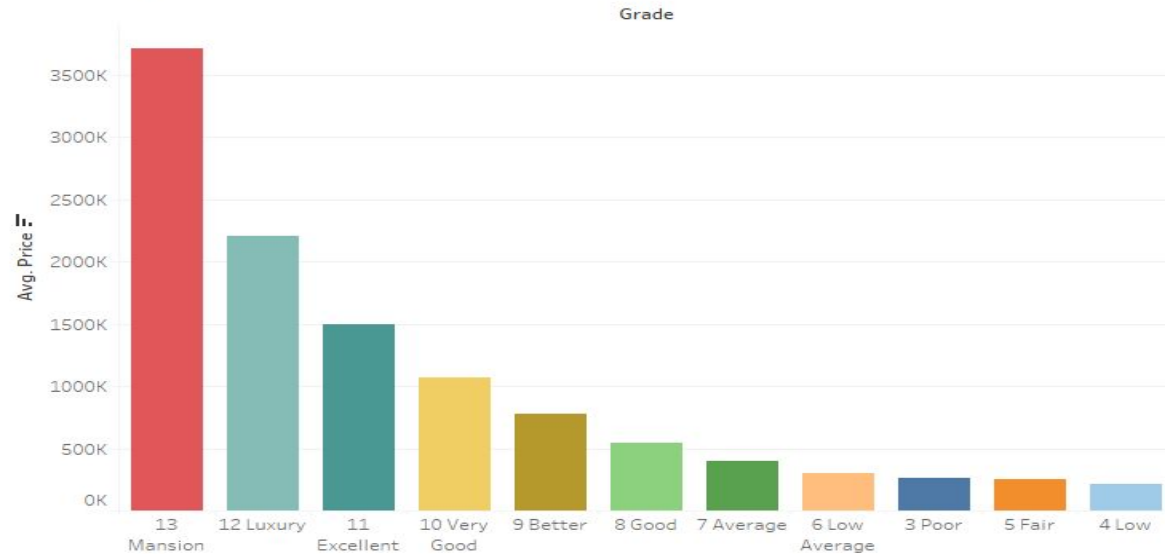
# The Data

King County House Dataset had 21,597 data points and 20 features which we used to analyse and draw insights from. We then built models around it and there was some interesting discoveries from the dataset.

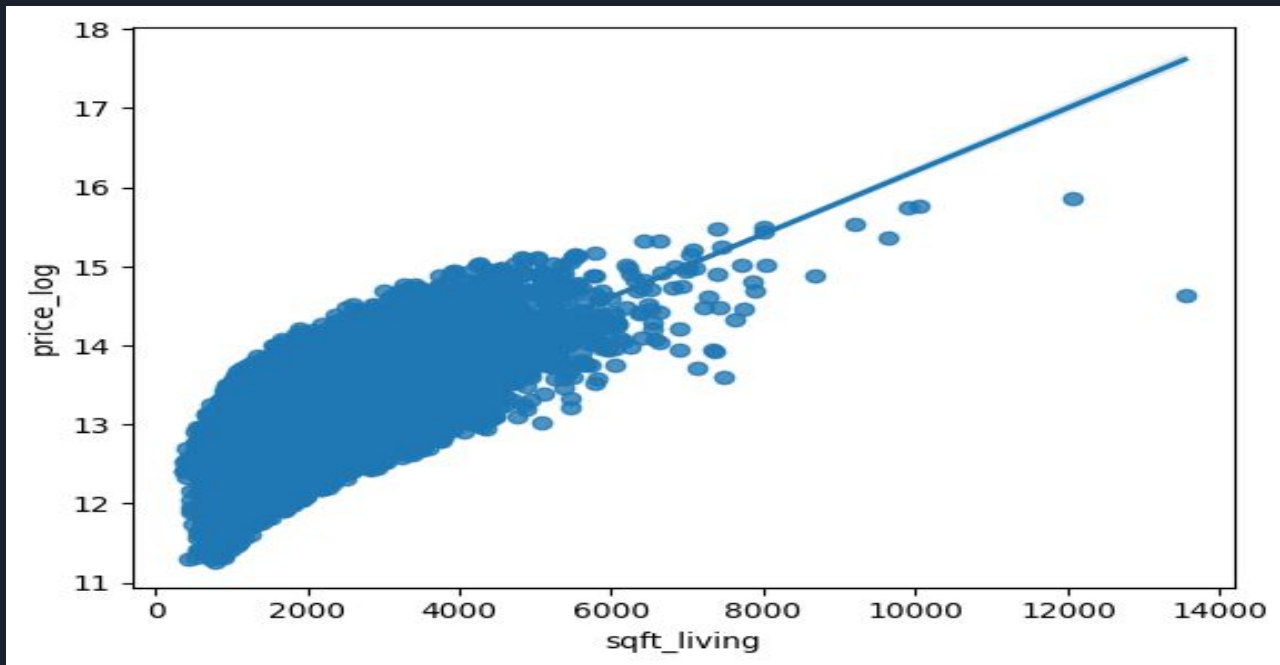


# Price vs Grade

Sales Based on Grade



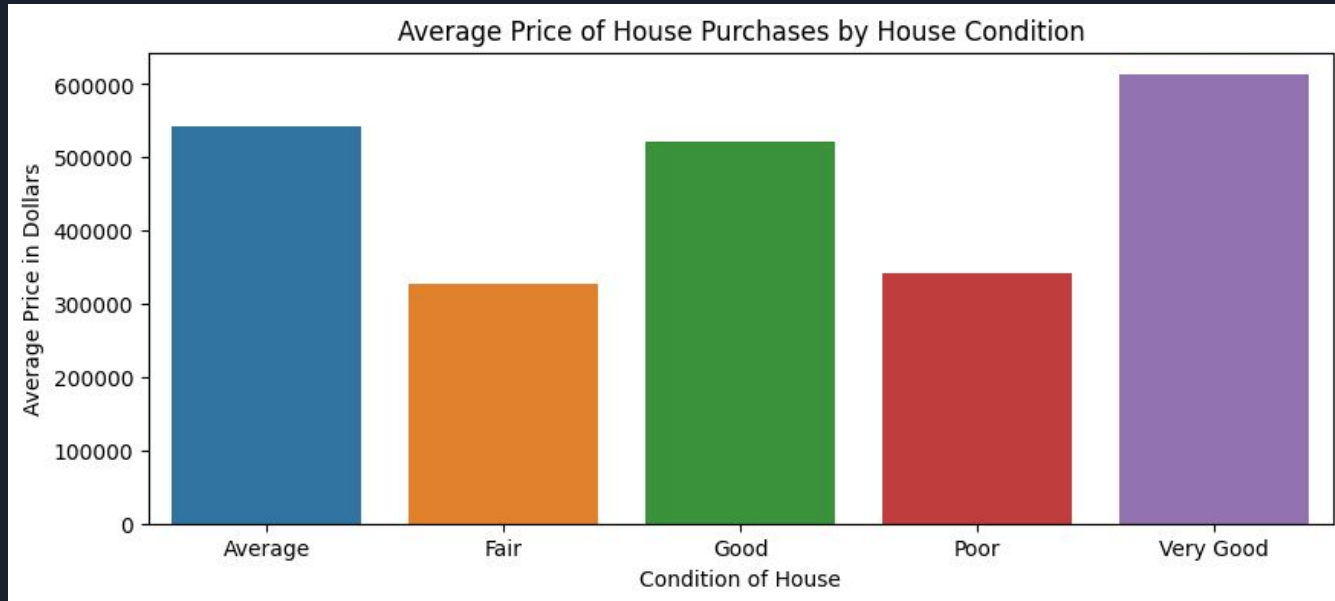
# Price vs Sqft Living





# Price vs House Condition

The houses that had the highest sales were those considered in very good condition and those with the least sales are those ranked as fair.



# Results

The prediction models built all were statistically significant. However, PropTech Properties Limited will adopt the third model which had the highest accuracy and the least mean squared error.




## Recommendations

A focus on the following will steer the company to success:

- Sqft living
- House grade
- Bathroom numbers
- Home condition
- Number of bedrooms
- Floor number





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Detailed analysis of the project:  
<https://github.com/SamsonKamunyu/King-County-House-Price-Prediction>

