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Setting goal and objective are mandatory

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Base on sale prices data.

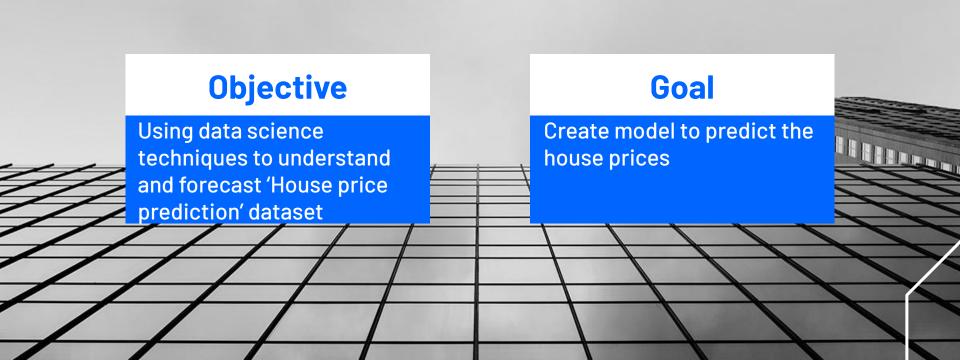
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Base on neighborhood data

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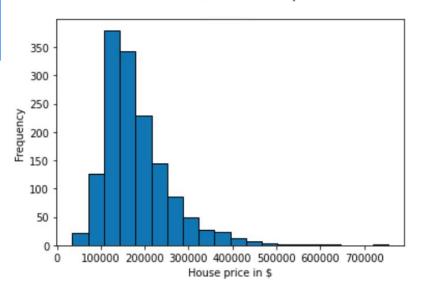
# Target is to predict house price by location



# **Data analysis**

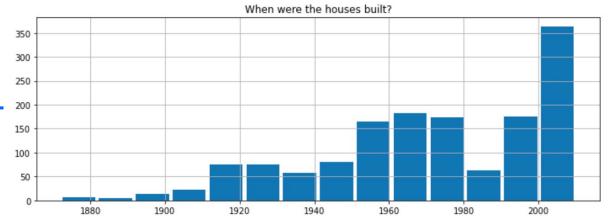
Initial analysis on sale price side

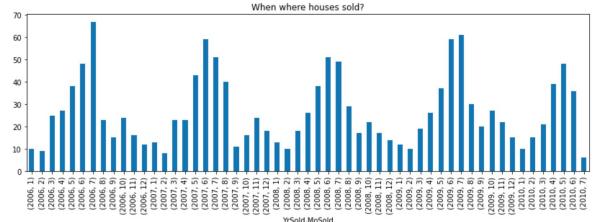
#### Distribution of the house price



For the range of house price The average sales price is \$180,921, while median is \$163,000.

With the shape of positive skew. Where the majority of house are place between \$100,000 - \$200,000.





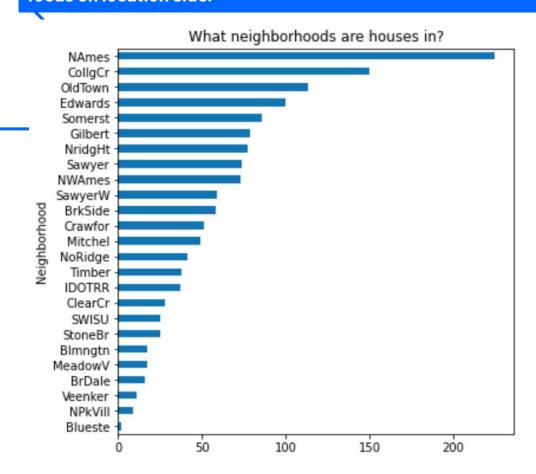
# Data analysis

Initial analysis on sale price side

Using 'YearBuild' feature to find out that majority of house are build on 20s.

Group 'Year sold' and 'Month sold' data to see trend of house sold. Peak time during June-July and drowse on early of the year. As we are interesting in predicting sales price with location, we then focus on location side.

## **Data analysis**

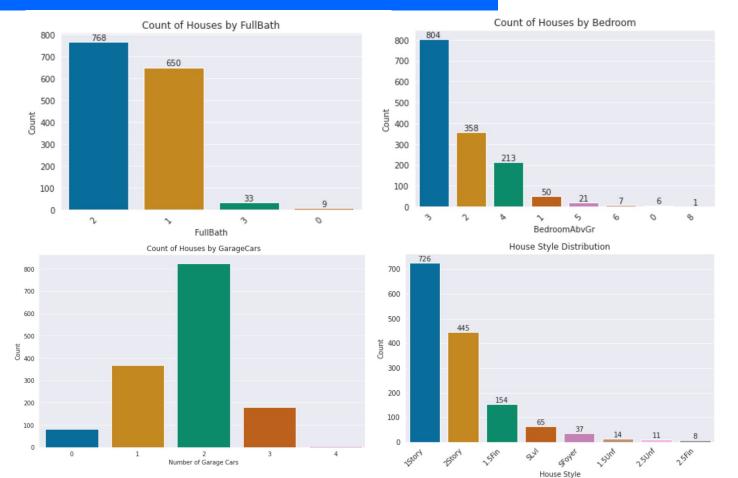


Where the top 5 neighborhoods are NAmes, CollgCr, OldTown, Edwards and Somerst.

Where NAmes have the highest household number among all neighborhood with over 200 house. And approximately 150 household at CollgCr.

As we are interesting in predicting sales price with location, we then focus on location side.

## **Data analysis**



#### Now we plot a graph of Sales price and neighborhood

## **Data analysis**





#### Result

 As a result RMSE(Root mean squared error): 0.321

#### **Trend**

**Sale Price:** 100,000 - 200,000 \$

Neighborhood: NAmes, CollgCr, OldTown, Sawyer,

Edwards, Gilbert, NWAmes

House Style: 1 story

Full Bath: 1 Full bath

Bedroom: 3 Bedrooms

Garsage: 2 cars

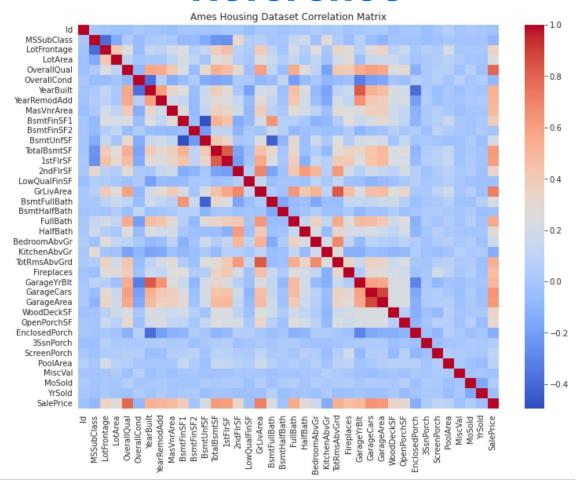
# Result & Recommendation

#### Tips:

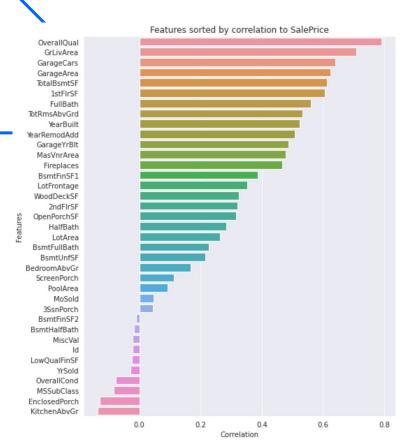
- For an investor or any buyer, other factors also important:
  - Time of house sold usually drop on every 2nd quarter of the year (Buyer might get a deal off)
  - Overall quality and facilities provide are also very potential when buying or even selling

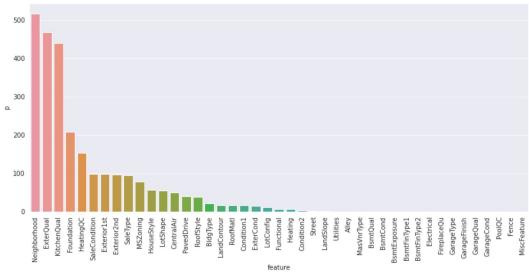


## Reference



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