

About the Project

02. Major Requirements

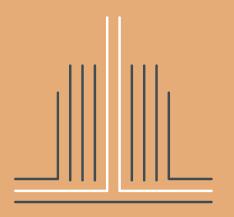
03. Project Goals

04. EDA

05. Findings

06. Recommendation





Problem statement

 Determine the best model for predicting Sale Price for houses in Ames.

• What are the features on which house price depends on.







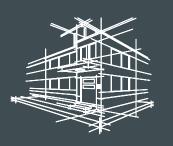
Work Flow



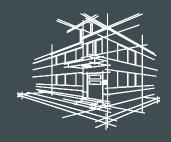
Cleaning and Preprocessing



Exploratory Data Analysis



Modelling & Evaluation



Recommendation



Code Snippets

na_counts = train.isna().sum()
na_counts[na_counts > 0]

Lot Frontage	330	
Alley	1911	
Mas Vnr Type	1240	
Mas Vnr Area	22	
Bsmt Qual	55	
Bsmt Cond	55	
Bsmt Exposure	58	
BsmtFin Type 1	55	
BsmtFin SF 1	1	
BsmtFin Type 2	56	
BsmtFin SF 2	1	
Rsmt Unf SF	11	

Calculating counts for na values in the train datasets column import numpy as np, pandas as pd
import scipy.stats as stats
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.linear_model import Line
from sklearn.model_selection import t
from sklearn.preprocessing import Sta
from sklearn.linear_model import Line
from sklearn.feature_selection import
from sklearn.metrics import r2_score

Imports

```
# fit lasso using training set
model_lasso = lasso.fit(X_train,y_tra:
# training score
print("Training set score: {:.2f}".for
# testing score
print("Test set score: {:.2f}".formate
print("Number of features used: {}".for
```

Training set score: 0.79 Test set score: 0.63

Number of features used: 11

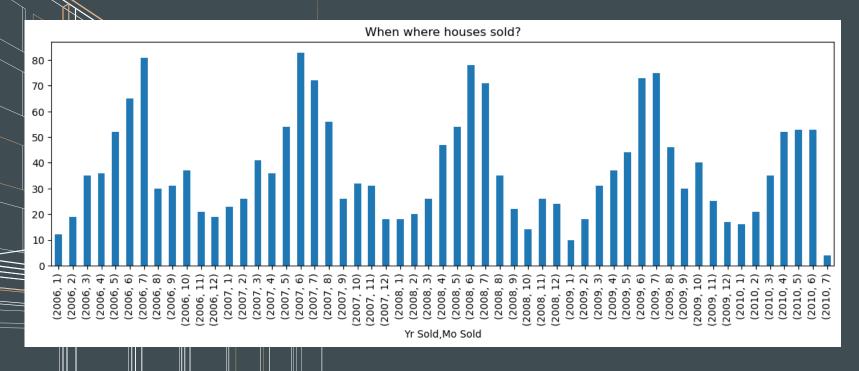
Finding score of Training, Testing and No. of Feature used.







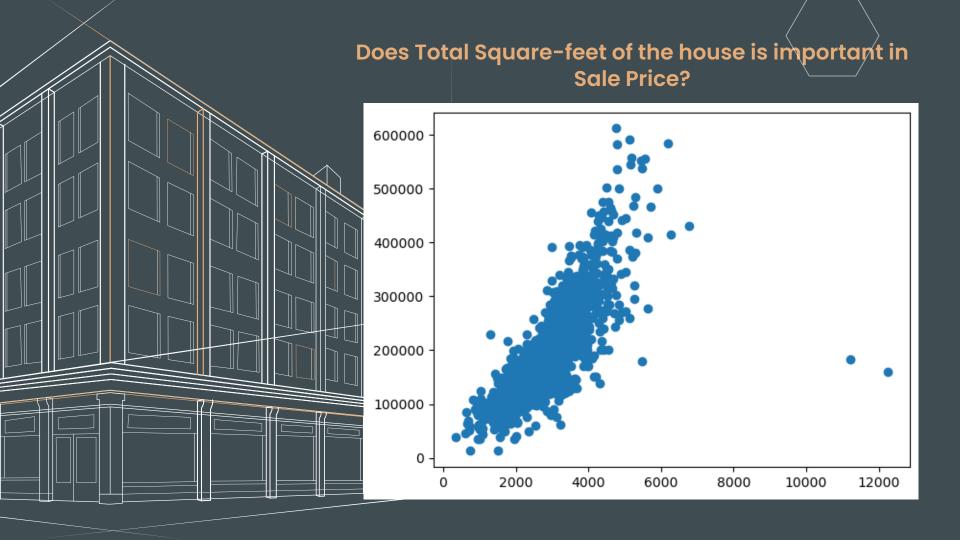
Houses sold / year

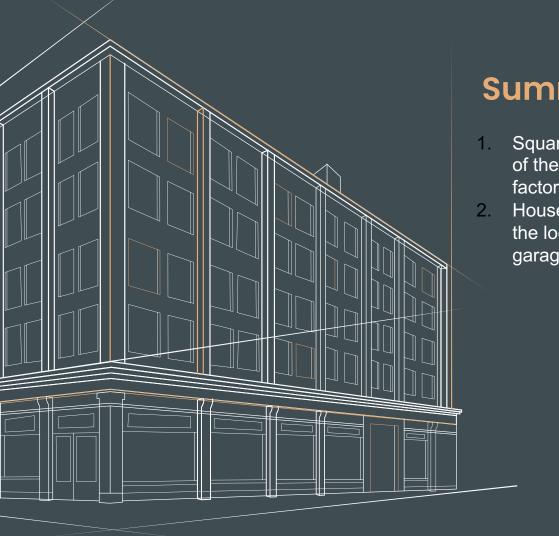










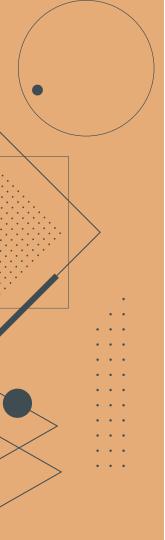


Summary of Findings

- 1 Square feet area, condition, age, and the location of the house are the most important determinant factors of sale price.
- 2. House buyers should invest in houses based on the location, total sq. feet of the house, lot area, garage, year built.

Recommendation

- Renovate the house if it is in bad condition.
- 2. Build a garage or renovate old one if it is damaged.
- 3. If its in cold place, add fireplace.
- 4. Renovate Kitchen.



Thanks!

Do you have any questions? crajshree1002@gmail.com







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