CALIFORNIA HOUSE PRICING

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21-2129

MAT 271 A

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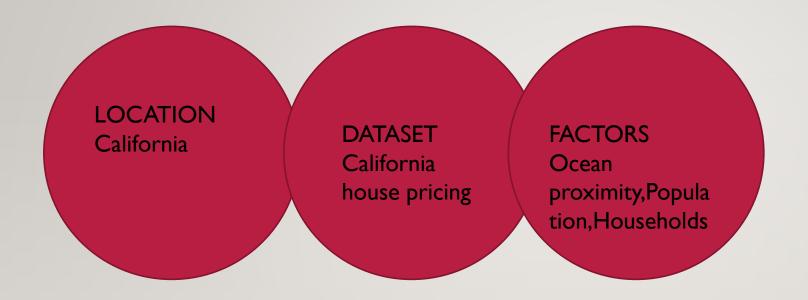
House

- Difference in the house prices
- House price prediction

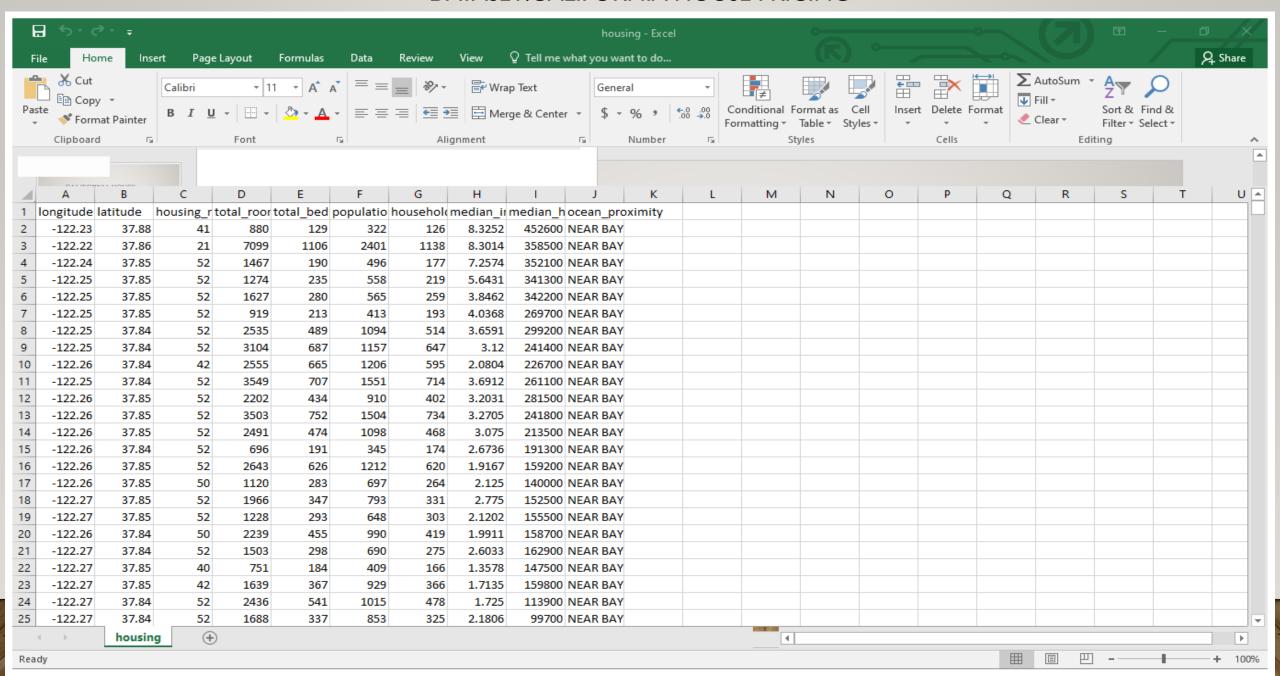
House price

- Machine learning
- Factors

SCOPE



DATASET: CALIFORNIA HOUSE PRICING



DOMAIN

Topic	Findings
House	House is one of the most important components of one's existence because it gives shelter, safety and warmth to the owner and is a necessity for every human.
House Price	Each house has it's own price based on it's location, ocean proximity, households, total rooms, total bedrooms and and population.
House Price Prediction	House price prediction gives a description of the features and current market price which can be used to make effective predictions and gain a better understanding of the market. This is very important to potential buyers and sellers.

FACTORS

Topic	Findings
Location	A house placed close to the ocean is expected to be of more value compared to the house that is far away from the ocean.
House Structure	One with more rooms occupies more space hence the structure varies and influences the price.

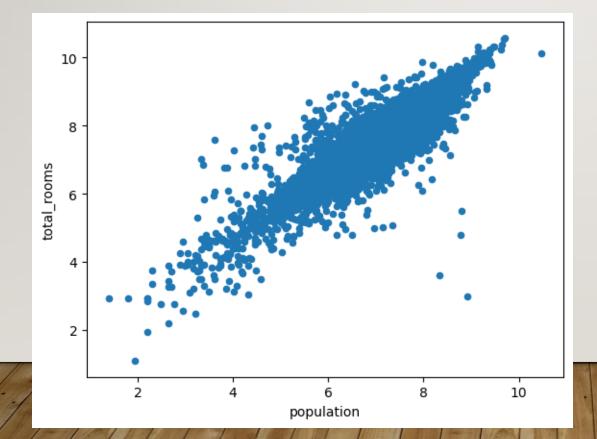
MACHINE LEARNING

Topic	Findings
Machine Learning	Consists of adaptive processes that allow computers to learn from their own experiences. It has different approaches which are supervised learning, unsupervised learning, semisupervised learning and reinforcement learning.

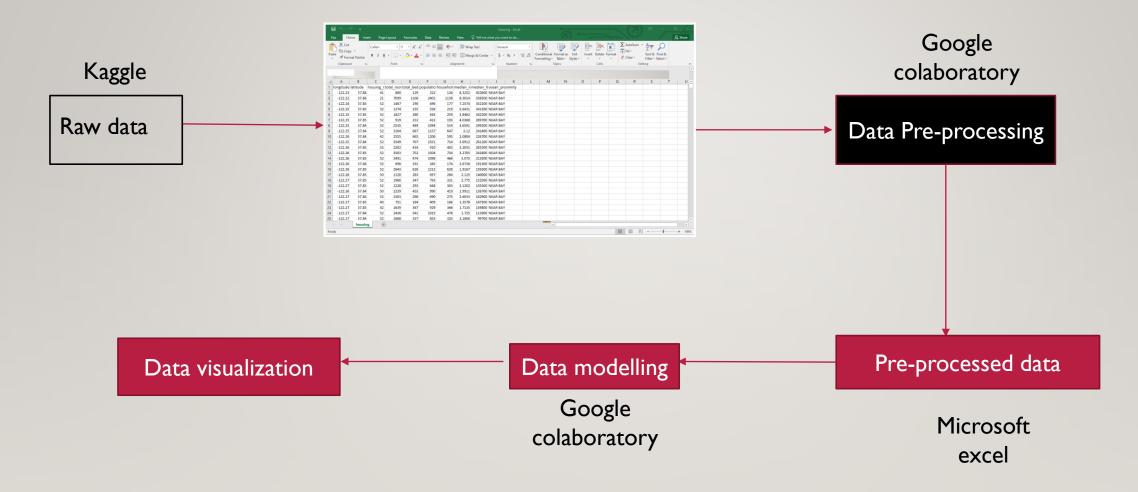
TECHINQUE

Linear Regression is a regression analysis when a statistical procedure is used to estimate the relationship between distinct variables. It is a simple and basic way but has a degree of error that is slightly above the average. An example is as shown below

#checking if the data is linear
train_data.plot(kind='scatter', x='population', y='total_rooms')
plt.show()



DASHBOARD ARCHITECTURE



THE END