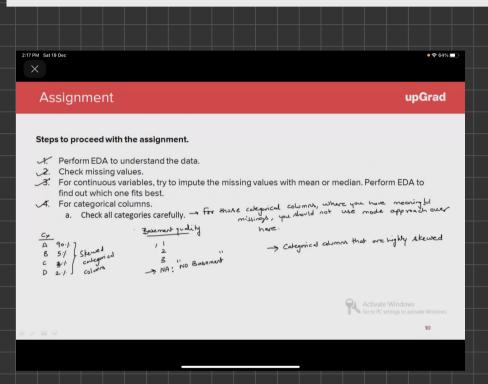
# HOUSE PRICE PREDICTION

## Problem Statement (1) How Price of the house is dependent on various features (1) How Price of the house is dependent on various features (1) The top features that influences the price of the house.

A US-based housing company named Surprise Housing has decided to enter the Australian market. The company uses data analytics to purchase houses at a price below their actual values and flip them at a higher price. For the same purpose, the company has collected a data set from the sale of houses in Australia.

The company is looking at prospective properties to buy to enter the market.



Try to drzop skewco

How to solve..Continue.

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### What to do?

- 5. Check if the target variable is normally distributed or not?
- 6. Create dummies for categorical data.
- You can create groups of the the categories to reduce the number of categories and then create dummies.
- This is an optional method.
- 7. Handling year columns.
  - There are 4 columns that contain year. What to do with them?
  - How to convert them?

Activate Windows
Go to PC settings to activate Windows.

Not reasoning outliers will influence
the best fit look.

How to handle outliers?

1- Do Log freenspromation for Saletrice

Linears Regression cannot extrapolate

— if 100 G y < 1000

then if will always product between 100 GPG 1000

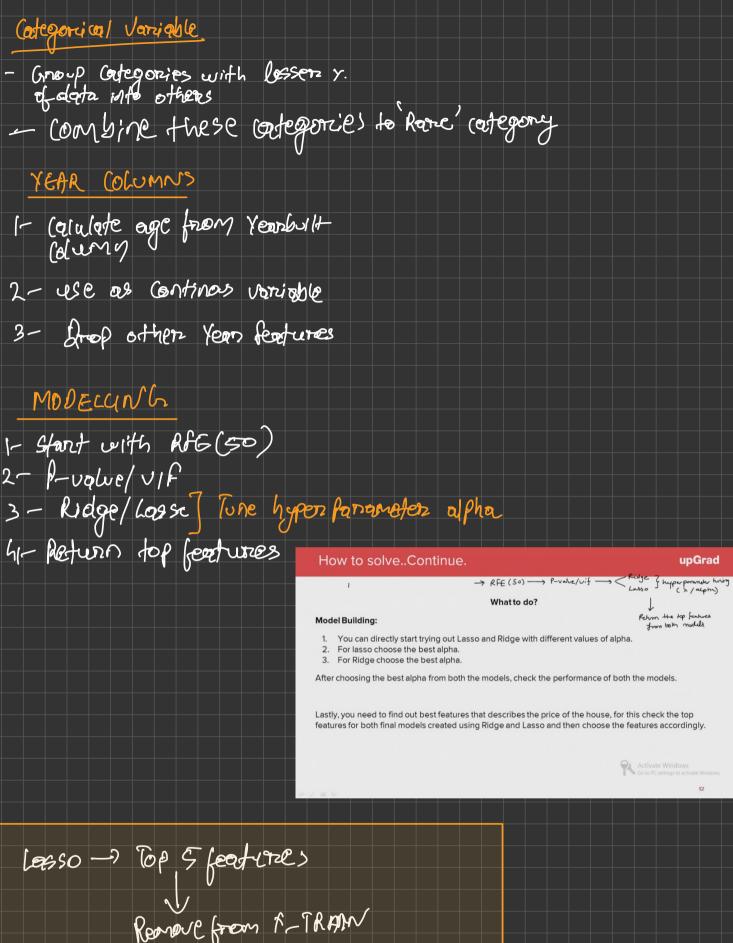
— Should not have outliers

— cannot remains and the contract outliers

-> Capping Not acceptable

-> model work work for ronge of data that was considered as outliers

Lo G Noamin

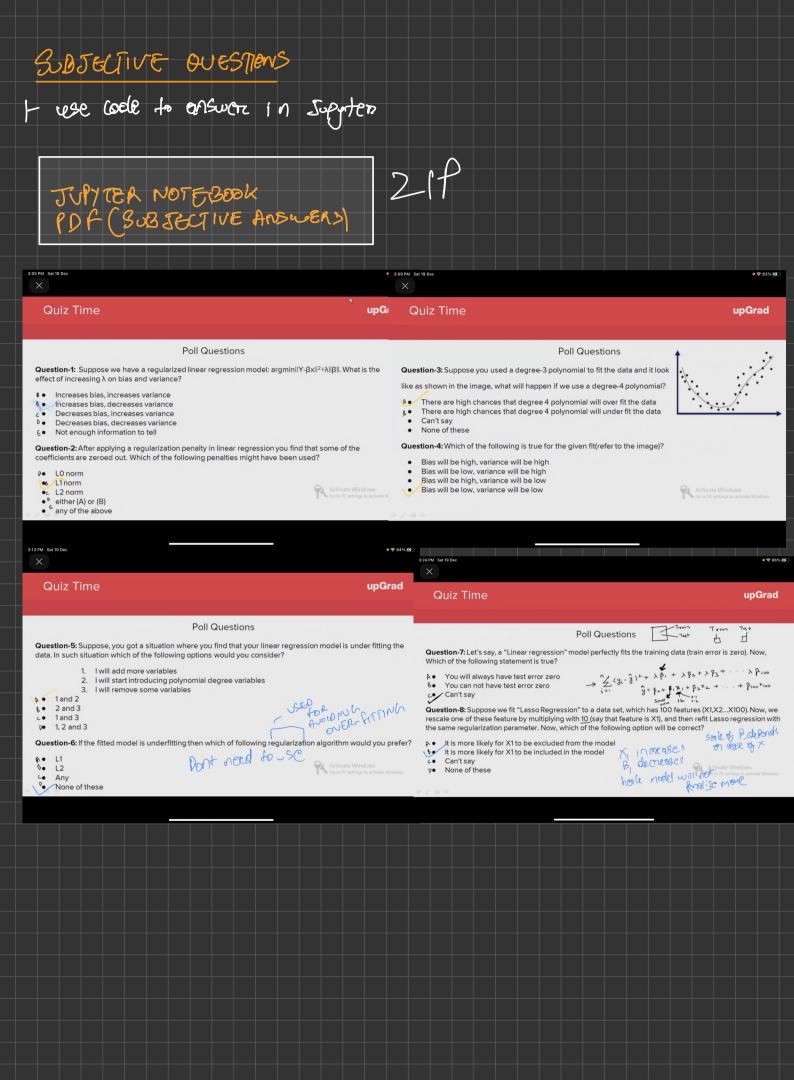


LOSSO -> TOP S features

Remove from F-TRAM

RETRAIN MODEL

MEASURE LERFORMANCE



## Quiz Time

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### Poll Questions

**Question-1:** Suppose we have a regularized linear regression model:  $\arg\min\|Y - \beta x\|^2 + \lambda \|\beta\|$ . What is the effect of increasing  $\lambda$  on bias and variance?

- A Increases bias, increases variance
- Increases bias, decreases variance
- Decreases bias, increases variance
- Decreases bias, decreases variance
- € Not enough information to tell

**Question-2:** After applying a regularization penalty in linear regression you find that some of the coefficients are zeroed out. Which of the following penalties might have been used?

- Po LO norm
- **№** L1 norm
- L2 norm
- P either (A) or (B)
- any of the above

