## FEATURE SELECTION

- -> Backward Elimination Technique using OLS
- -> Feature Selection Techniques

Cinear regression (50\_startups.csv)
RLD, Adm, Marks, State, Profit
features label
categoral

California, Florida, NY, R&D, Adm, Marked - sterlines
Profit = bo(1)+ b, (California) + b2 (Plorida) + b2(NY)+b4(R&D)
+ b5(Adm) + b6 (Marker)

Option > To select the best features using multiple approaches.

- 1) Backword Elimination Technique using OLS (
  Ordinarly wast Squares)
- @ Respons Recursive Feature Elimination (RFE)
- 3) Get Best features Based on model (alga)
- @ Get Best features using ANOVA (Analysis of Variance)

O Backcoard Region Climination using OLS. OLS -> Ordinary Least Squares -> deplay model not possible Linear Regression Ly deploy model is possible @ Perform All-IN (input all features and get Steps (Algo): the summary) 6 Deade the Significance Level (S.L.) - 0.05 accepted one Toge -> 5% acceptable 95% confidence on my model @ Check which feature in summonly has highest p- value. @ If p value > S.L., elitorisate that feature. else go to (\$) @ Repeat from b. A consider all features has importance for model exertion