

PCA  $\rightarrow$  Principal Component Analysis (unsupervised learning)  
Extracts principal components based on variance. (best features)

### Feature Elimination

Physically remove the feature and create model

- Backward Elimination using OLS
- RFE

features w.o.t label

### $\Rightarrow$ Feature Extraction

Input all features and 'X' algo will extract best features and then create the model.

- PCA

features with high variance

## DIMENSIONALITY REDUCTION TECHNIQUE

30 features  $\rightarrow$  2 PCs  
3 PCs  
4 PCs

you will decide } Experimental Trial & error

## Training Phase (PCA)

