# Feature Selection:

* Feature Selection is the process to extract important feature from the data.
* Sometimes It happens that we have multiple columns or features, using all that features for training of the model leads to increase the time complexity as well as it’s computationally expensive.
* It’s also happens that some features does not have any relation with dependent feature. Some feature are does not have significant variability it’s means does not change with dependent feature.
* So why we are not use only those features which are directly correlated with output or dependent feature?
* Selection of these important features from the data are called Feature Selection.
* 1. Univariate Selection

2. Principal Component Analysis (PCA)

3. Sequential Feature Selection

4. Stepwise Selection

5. L1 Regularization (Lasso)

6. Forward Selection

7. Backward Elimination

8. Correlation-based Feature Selection and many more.