

Day 67

Feature Selection.

It is a way of selecting the subset of the most relevant features from the Original features by removing the redundant, irrelevant, or noisy features.

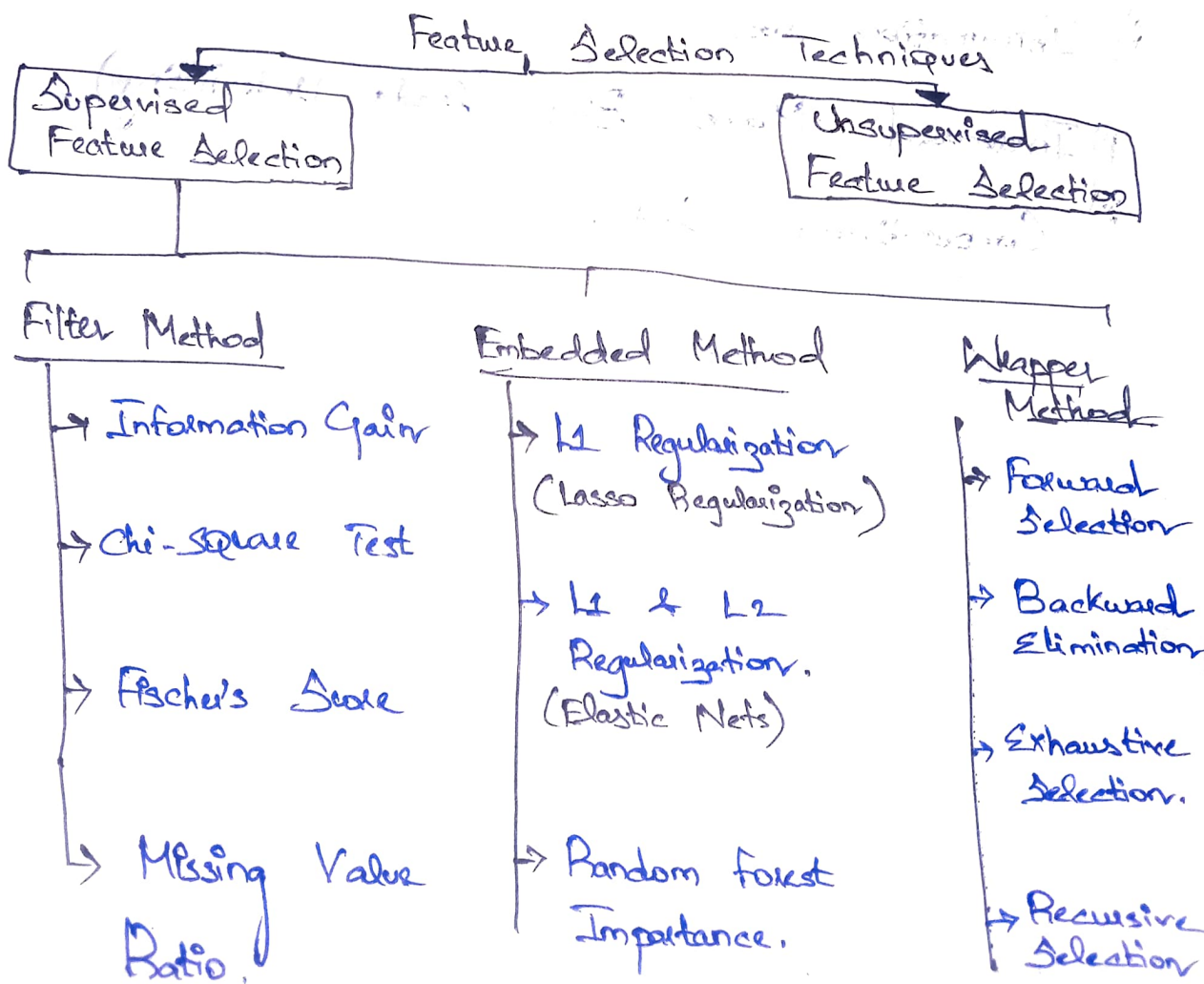
Feature Selection Techniques:

i) Supervised Feature Selection Techniques:

Consider target Variable & used for labelled dataset.

ii) Unsupervised Feature Selection Techniques:

Ignore target Variable & used for Unlabelled dataset.



Steps (Feature Selection):

- i) Data Preprocessing & Analysis :
- ii) Feature Selection Technique Selection :
- iii) Evaluation and Validation :

Advantages:

- i) Efficiency
- ii) Improved Model Performance
- iii) Enhanced Model Interpretability
- iv) Better Data Visualization

Disadvantages (limitations):

- i) Information loss
- ii) Increased Model Bias (leads Underfitting)
- iii) Computational Cost