

Naive Bayes

- Naive Bayes is a probabilistic machine learning classifier based on Bayes theorem.
- Types :
 1. Gaussian Naive Bayes : Uses a gaussian distribution for features
 2. Multinomial Naive Bayes : Used for discrete data such as text classification.
 3. Bernoulli Naive Bayes : Used for binary features.
- Naive Bayes models are also known as simple bayes or independent bayes.
- It works on the concept of Maximum A Posteriori i.e the class with highest probability is considered the most likely class.
- Applications :
 1. Spam filtering
 2. Text Classification
 3. Sentiment analysis
 4. Recommender systems