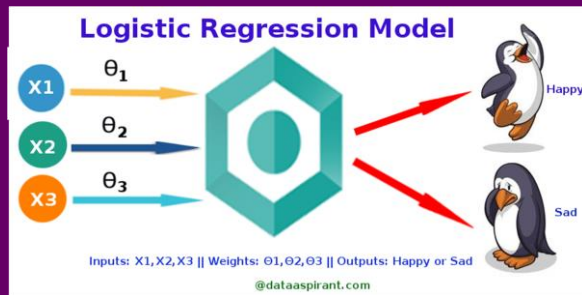


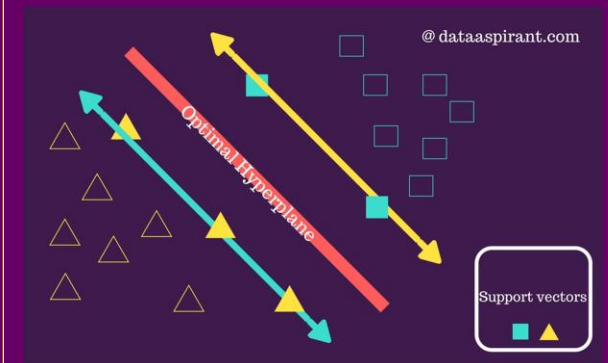
Classification Models

Logistic Regression



Decision Trees

Support Vector Machines



Naïve Bayes Classifier

Diagram illustrating the components of Bayes' Theorem:

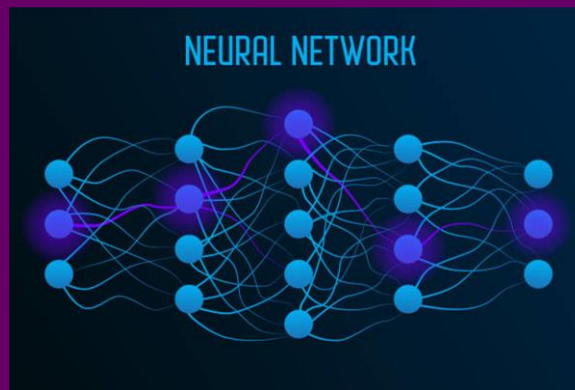
- Posterior:** $P(Y|X)$
- Likelihood:** $P(X|Y)$
- Prior:** $P(Y)$
- Evidence:** $P(X)$

The formula for the Posterior is shown as:

$$P(Y|X) = \frac{P(X|Y)P(Y)}{P(X)}$$

Evidence: unchangeable

Neural Network



K-Nearest Neighbor

