

# Errata : Naïve Bayes Classifier

# Naïve Bayes

- Naïve Bayes assumes that the features are independent for the given class.
- The slide w.r.t. is simply giving the definition of independence and is not speaking much about it.
- This point was made clear in the class – also the text book by Duda and Hart is clear about this.
- So,  $P(X) = \sum_{i=1}^c P(X|\omega_i)P(\omega_i)$  where
$$P(X|\omega_i) = \prod_{j=1}^d P(x_j|\omega_i)$$

- Slides are supplement for the class room teaching.
- It may not give the full details of the concepts.
- This is the reason why text book or reference books needs to be referred which are comprehensive (complete).