

UNIT 4: LEARNING WITH TREES

1. Explain with an example the steps involved in Iterative Dichotomiser 3(ID3) Algorithm.
2. Write and explain the steps involved in Classification and Regression Trees (CART).
3. What are the similarities and differences between ID3 and CART?
4. With any example of your choice illustrate the use of k-Nearest Neighbour as a probabilistic learning algorithm.
5. Explain how extensions of SVM is applied to ***any one*** of the below scenarios:
 - (i) Multi-class classification
 - (ii) Regression