

## **LAB 3**

### **CSF415 DATA MINING**

#### **K NEAREST NEIGHBOUR**

1. Apply Decision tree and k-nearest neighbor classifiers. See the difference in accuracy.
2. Normalize the data. Now apply KNN on normalized data and observe the difference.
3. Apply some technique to remove irrelevant attributes. Now apply KNN and analyze the output.
4. Apply weighted distance for KNN to resolve the problem of irrelevant attributes. Observe the output.
5. Use weighted majority to see the effect on KNN accuracy.
6. How will you decide the best value of k? Hint: Perform experiments for increasing k and select the best one.