

## CS 563: ARTIFICIAL INTELLIGENCE LAB (0-0-2: 1)

### Suggested Laboratory Assignments:

- Simulating BFS, DFS, DFID search, Uniform Cost Search, Bidirectional search.
- Simulating heuristic search algorithms - Simulated Annealing, Hill Climbing, Best First, A\*.
- State space representation and solution of the water-jug problem etc. using A\* algorithm.
- Question-Answering by resolution in First Order Predicate Logic.
- Numeric data clustering using K-means clustering algorithm.
- Performing function approximation using Multi-Layer Perceptron.
- Text classification using Naive Bayes' classifier for TF-IDF based Vector Space Model of text.

Text classification using and K-means clustering algorithms for TF-IDF based Vector Space Model of text