

CSE3521-Syllabus

1. What is AI (Introduction and Definition)
2. Search
 - a. Uninformed Search (BFS, DFS and UCS)
 - b. Informed Search (Greedy, A*)
 - c. Local Search
 - d. Adversarial Search
3. Logic
 - a. First-Order Logic
 - b. Inference in First-Order Logic
4. Knowledge Base
 - a. Expert system
5. Probability
 - a. probability and mathematical statistics
6. Supervised ML
 - a. Naive Bayes
 - b. Logistic regression
 - c. Multi-Layer Perceptron
 - d. Decision Tree
7. Unsupervised ML
 - a. K-Nearest Neighbour
 - b. k-means
8. Deep Learning
 - a. Convolutional Neural Networks
 - b. Recurrent Neural Networks
9. Applications
 - a. Natural Language Processing
 - b. Computer Vision