Artificial Intelligence

Topics Covered

1. Introduction to AI, history of AI, course logistics, and roadmap

2. Intelligent agents, uninformed search

   - Breath First Search

   - Depth First search

   - Best First Search

   - Iterative Deepening search

3. Heuristic search, greedy search, A*, AO* algorithm, stochastic search

4. Game playing – Min –Max Algorithm, Alpha Beta pruning, Hill Climbing.

5. Constraint satisfaction problems , Crypt arithmetic problem

6. Knowledge Representation-

   - Logical agents,
   - propositional logic
   - first order logic-predicate Logic

7. Lab Sessions based on these topics

8. Implement Edx project.

9. Two Research paper

10. Individual Project