

Overview of this course

What you will learn in this class

- Search algorithms (BFS/DFS, constrained, two-player) (usually before midterm)
 - Finding the path to solution on a graph, simple chess games
- Logic expressions and inference (automated) (usually after the midterm)
 - The square of any real numbers are positive, 1 is a real number
 - How to proof $1^2 \geq 0$
- Bayesian Networks (when with uncertainty)
 - Windy may lead to Rainy, Rainy may lead to traffic jam
 - How will windy affect the probability of traffic jam

Overview of this course

What you will NOT learn in this course

- Modern Machine Learning / Deep Learning
 - Linear Regressions, SVMs, Neural Networks (CNNs, LSTMs, transformers..)
- Modern Reinforcement Learning (RL)
 - Deep RL (DQN, Atari Games, alpha-go, self-driving...)
- *This materials in this class serves as generic foundations for an AI system*