



CS 416

Artificial Intelligence

Lecture 24

Statistical Learning

Chapter 20



AI: Creating rational agents

The pursuit of autonomous, rational, agents

- It's all about search
 - Varying amounts of **model** information
 - tree searching (informed/uninformed)
 - simulated annealing
 - value/policy iteration
 - Searching for an explanation of observations
 - Used to develop a model

Searching for explanation of observations



If I can explain observations...

can I predict the future?

- Can I explain why ten coin tosses are 6 H and 4 T?
 - Can I predict the 11th coin toss?