

15-381: Artificial Intelligence

Regression and neural networks (NN)

Mimicking the brain

- In the early days of AI there was a lot of interest in developing models that can mimic human thinking.
- While no one knew exactly how the brain works (and, even though there was a lot of progress since, there is still little known), some of the basic computational units were known
- A key component of these units is the neuron.

The Neuron

- A cell in the brain
- Highly connected to other neurons
- Thought to perform computations by integrating signals from other neurons
- Outputs of these computation may be transmitted to one or more neurons

