

Team Name: sdmay24-47

Team Members: Jack Sebahar, Mason Wichman, Lal Siama, Nicholas Otto, Helen Lau, Isaiah Mundy

Report Period: Aug 28-Sept 10

Summary of Progress in this Period

During this period, we covered most of the introductory aspects of the project. We completed the team contract and initial preamble requirements. These documents required us to plan our team structure and values and delegate roles to each group member. We also had initial meetings with our TA and advisor, introducing us to the semester's main project concepts and structure. We also attended required lectures discussing project management, team structures, and interviewing/ career strategies. We met as a team in person and are consistently continuing to discuss our project via Discord daily.

Pending Issues

- Continue to delegate and refine project roles as needed
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Plans for Upcoming Reporting Period

- Continue to meet with client/advisor Sep. 20th & Sep. 27th (everyone)
 - Meet with Dr. Gaffar on wednesdays and complete the introductory lectures on AI
 - Complete any assigned tasks for the course (lightning talks, requirements, constraints, etc.)
 - Continue weekly team meetings on Thursday
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Lecture Notes (9/13)

AI: part machine learning + deep learning

Neural Network

- *pattern recognition (the more data, the better)
- *learn on their own
- *adapt (part of learning)
- *graceful degradation (will still perform function)

Brain cell: neuron

- *mapping
- *1 Cell body (process)
- *Dendrites (inputs 1/0)
- *axon (1 output)
- *axon terminal (multiple copies of output distributed)

Graphs

*dots and lines (nodes/edges)

*They are everything!

Neuron Mode (imitate brain cell with electrical component)

*Dendrite (Inputs)

*Body (Sum/Threshold- step function)

*Axon (0/1)

*output

Interpolation (A&B) or Extrapolation (AorB)

Delta Rule

*we can control the activation function