

Week 2 Project: Build Your First Neural Network

Due Date: September 23, 2025

Project Overview:

Create a neural network from scratch using Python to classify handwritten digits (MNIST dataset)

Requirements:

1. Implement a multi-layer perceptron
2. Use sigmoid or ReLU activation functions
3. Implement backpropagation algorithm
4. Train on MNIST training set
5. Achieve at least 85% accuracy on test set

Deliverables:

- Python code (.py file)
- Training results and accuracy plots
- Brief report explaining your approach