Collapse All

Course Resources

- Python installation (updated)
- Learning Python programming

Schedule

- Tentative Schedule for F24 CS474/574: Deep Learning

Lecture Videos | October - December

- Lecture Video for October 2, 2024
- Lecture Video for October 7, 2024
- Lecture Video for October 9, 2024
- Lecture Video for October 16, 2024
- Lecture Video for October 21, 2024
- Lecture Video for October 23, 2024
- Lecture Video for October 28, 2024

- Lecture Video for October 30, 2024
- Lecture Video for November 4, 2024
- Lecture Video for November 6, 2024
- Lecture Video for November 11, 2024
- Lecture Video for November 13, 2024
- Lecture Video for November 18, 2024
- Lecture Video for December 2, 2024
- Lecture Video for December 4, 2024

Lecture Videos | August - September

- Lecture Video for August 19, 2024
- Lecture Video for August 21, 2024
- Lecture Video for August 26, 2024
- Lecture Video for August 28, 2024
- Lecture Video for September 4, 2024
- Lecture Video for September 9, 2024
- Lecture Video for September 11, 2024

- Lecture Video for September 16, 2024
- Lecture Video for September 18, 2024
- Lecture Video for September 23, 2024
- Lecture Video for September 25, 2024
- Lecture Video for September 30, 2024

Module 1: Foundations

- Math Basics (3 lectures)
- ML basics (4 lectures)
- ANNs and BP (6 lectures)

Module 2: Optimization and Regularization for Deep Learning

- Advanced Optimization and Regularization (4 lectures)

Module 3: DL Architectures

- Convolutional Neural Networks (3 lectures)

Module 4: RNNs

Recurrent Neural Nets (RNNs)

Module 5: Advanced topics

Selected Topics

Assignments

HW1: Function implementation
Sep 3 50 pts

HW2: SGD implementation and cross-validation
Sep 20 100 pts

HW3: NN Implementation from scratch
Oct 13 100 pts

HW4: Handwritten Digits Classification
Oct 30 100 pts

HW5: RNN for Sentiment Analysis
Nov 22 100 pts

Attendance
100 pts

Final Project

Final Project: M1 submission

Nov 30 50 pts

Final Project: M2 submission (final)

Dec 13 100 pts