

CSE 6740, Fall 2023, Georgia Tech

Lecture 0: Course Outline

22nd August 2023

Lecturer: Nisha Chandramoorthy

In this course, we learn the mathematical foundations of modern machine learning methods with the goal of understanding how and when they do work and do not. We will focus on neural networks mainly, but we will spend a few lectures on classical statistical models and algorithms.

The course will follow some textbooks:

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1 Resources (not exhaustive)

- We will be closely following

2 Tentative course schedule

Lec 1 Least-squares regression, Tikhonov regularization, linear algebra review along the way