CSC 735 Machine Learning and Data Mining

Syllabus

Meeting Information

- **Days, Times, & Room:** Mo 6:30 PM – 9:10 PM @ 1N 111

- **Homepage:** http://www.cs.csi.cuny.edu/∼chen/735

- **Instructor:** Cong Chen (cong.chen@csi.cuny.edu)

- **Office Hours:** Mo 5:25 PM – 6:25 PM @ 4N 206

Grading Policy

- **Attendance & Participation:** 1 point each

- **2 Exams:** 50 points each

- **Grades:**

  A: more than 90 points;

  B: 80 to 90 points;

  C: 70 to 80 points;

  D: 60 to 70 points;

  F: fewer than 60 points

Textbook

- Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow

Topics

Machine Learning and Neural Networks

- Introduction to Machine Learning (Ch 1, 2, and 3)

- Linear Regression and Logistic Regression (Ch 4)

- Traditional Models (Ch 5, 6, 7, 8, and 9)

- Introduction to Neural Networks (Ch 10)

—— Midterm ——

Deep Learning Models

- Training Deep Neural Networks (Ch 11)

- Convolutional Neural Networks (Ch 14)

- Recurrent Neural Networks and Attention (Ch 15 and 16)

- Other Models (Ch 17)

- Reinforcement Learning (Ch 18)

—— Final ——