Machine Learning for Big Data and Text Processing: Foundations
October 4-5, 2018

Course Directors: Professor Regina Barzilay, Professor Tommi Jaakkola

Thursday:
9:00am: Introduction to ML (Barzilay)
10:00am: Formulation of ML problems (Barzilay)
11:00am: Coffee break
11:15am: Linear classification/regression (Barzilay)
12:15pm: Lunch (provided)
1:30pm: Non-linear classification (Jaakkola)
2:15pm: Feedforward neural networks (Jaakkola)
3:15pm: Coffee break
3:30pm: Feedforward neural networks (Jaakkola)
4:00pm: Tutorial on ML packages
5:00pm: Adjourn

Friday:
9:00am: Unsupervised learning, clustering (Barzilay)
10:00am: Collaborative filtering (Barzilay)
11:00am: Coffee break
11:15am: Convolutional networks (images, text)
12:15pm: Lunch break (on your own)
1:30pm: Recurrent neural networks (Jaakkola)
2:30pm: Coffee break
2:45pm: Reinforcement learning (Jaakkola)
4:00pm: Tutorial on DNN packages
5:00pm: Adjourn