

# Machine Learning for Big Data and Text Processing: Advanced

*This course runs 10:00 am - 4:45pm on Wednesday, 9:00am - 4:30pm on Thursday, and 9:00am - 4:30pm Friday.*

## Wednesday

- 10:00am – 12:00pm: Recommender systems
- 12:00 – 1:00pm: Lunch break
- 1:00 – 3:00pm: Unsupervised learning, mixtures, EM
- 3:00 – 3:15pm: Coffee break
- 3:15 – 3:45pm: Time series models
- 3:45 – 4:45pm: recurrent neural networks

## Thursday

- 9:00 – 11:00am: Intro to NLP, medical problems
- 11:00 – 11:15am: Coffee break
- 11:15 – 12:15pm: Learning lexical representations
- 12:15 – 1:15pm: Lunch break
- 1:15 – 2:15pm: ML for drug design, chemistry
- 2:15 – 2:30pm: Coffee break
- 2:30 – 3:30pm: ML for networks
- 3:30 – 4:30pm: Interpretability, transfer

## Friday

- 9:00 – 11:00am: Reinforcement learning
- 11:00 – 11:15am: Coffee break
- 11:15 – 12:15pm: Deep RL
- 12:15 – 1:15pm: Lunch break
- 1:15 – 2:15pm: Robust ML

2:15-2:30pm: Coffee break

2:30 – 4:30pm: Discussion of participant problems, solicited in advance