

Syllabus:

Decision Trees
Nearest Neighbors
Perceptron
SVM
Regression (Linear and Logistic)
Kernel methods to introduce non-linearity
Neural Networks
RNN and CNN
Attention mechanism
Introduction to GANs/Reinforcement Learning
Special Topic (if time permits)

Textbooks:

“A Course in Machine Learning” by Hal Daumé III

<http://ciml.info/>

“Elements of Statistical Learning”:

https://web.stanford.edu/~hastie/ElemStatLearn/printings/ESLII_print12.pdf

“Deep Learning”

<https://www.deeplearningbook.org/>