**Resources and study guide**

All Lectures are in Youtube: <https://www.youtube.com/playlist?list=PL_pVmAaAnxIRnSw6wiCpSvshFyCREZmlM>

Dimension reduction

<https://amueller.github.io/COMS4995-s20/slides/aml-13-dimensionality-reduction/#1>

Clustering

<https://amueller.github.io/COMS4995-s20/slides/aml-14-clustering-mixture-models/#1>

Recommenders

<https://uncc.instructure.com/courses/174941/files/19158266?wrap=1>

Graph embedding

<https://uncc.instructure.com/courses/174941/files/19158265?wrap=1>

Time Series

<https://amueller.github.io/COMS4995-s20/slides/aml-21-time-series/#1>

Text

<https://amueller.github.io/COMS4995-s20/slides/aml-15-text-data/#1>

<https://amueller.github.io/COMS4995-s20/slides/aml-16-topic-models/#1>

<https://amueller.github.io/COMS4995-s20/slides/aml-21-time-series/#48>

Neural Networks

<https://amueller.github.io/COMS4995-s20/slides/aml-18-neural-networks/#1>

Supervised learning

slides: <https://amueller.github.io/COMS4995-s20/slides/aml-03-supervised-learning>

Preprocessing

slides: <https://amueller.github.io/COMS4995-s20/slides/aml-04-preprocessing>

Linear Regression

[https://amueller.github.io/COMS4995-s20/slides/aml-05-linear-models-regression#](https://amueller.github.io/COMS4995-s20/slides/aml-05-linear-models-regression)

Linear Classification

[https://amueller.github.io/COMS4995-s20/slides/aml-06-linear-models-classification#](https://amueller.github.io/COMS4995-s20/slides/aml-06-linear-models-classification)

Trees

<https://amueller.github.io/COMS4995-s20/slides/aml-07-trees-forests>

Gradient boosting

[https://amueller.github.io/COMS4995-s20/slides/aml-08-gradient-boosting#](https://amueller.github.io/COMS4995-s20/slides/aml-08-gradient-boosting)

Stacking

Model evaluation

[https://amueller.github.io/COMS4995-s20/slides/aml-09-model-evaluation](https://amueller.github.io/COMS4995-s20/slides/aml-09-model-evaluation/#1)