Linear Regression, Estimation, Generalization

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-2.pdf

Polynomial Regression, Cross-Validation, Statistical View

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-3.pdf

Classification, Decision Theory, Logistic Regression

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-5.pdf

Naive Bayes

https://ocw.mit.edu/courses/sloan-school-of-management/15-097-prediction-machine-learning-and-statistics-spring-2012/lecture-notes/MIT15_097S12_lec07.pdf

MAP Estimation, Regularization, Intro to SVM

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-6.pdf

KNN:

https://sebastianraschka.com/pdf/lecture-notes/stat479fs18/02_knn_notes.pdf

SVM and Kernels

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-7.pdf

Decision Trees:

https://github.com/rasbt/stat479-machine-learning-fs19/blob/master/06_trees/06-trees__notes.pdf

Feature Selection and Intro to Boosting

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-9.pdf

Boosting and Ensembles

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-10.pdf

https://github.com/rasbt/stat479-machine-learning-fs19/blob/master/07_ensembles/07-ensembles__notes.pdf

Probability Models / Mixtures / EM Algorithm (Start at slide 15):

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-13.pdf

EM and GMMs:

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-14.pdf

Clustering:

http://www.ai.mit.edu/courses/6.867-f04/lectures/lecture-16.pdf

TODO:
Bias Variance
Model Selection
Validation
PCA
Dimensionality Reduction
DBSCAN Hierarchical Clustering