

DATE	LECTURE	INSTRUCTOR
18-Jan	Intro	Pradeep Ravikumar
23-Jan	Parametric Models , Estimators (MLE, regularized), Guarantees	Pradeep Ravikumar
25-Jan	Bayesian Estimation, MAP	Pradeep Ravikumar
30-Jan	Regression , Linear, Polynomial Regression	Aarti Singh
1-Feb	Classification , Logistic Regression	Aarti Singh
6-Feb	Naïve Bayes, Generative vs Discriminative	Aarti Singh
8-Feb	Classification: Model-free Decision Theory, Surrogates	Pradeep Ravikumar
13-Feb	Support Vector Machines	Aarti Singh
15-Feb	Boosting	Pradeep Ravikumar
20-Feb	Stepping Back: Generalization, Model Selection (Cross validation, I	Aarti Singh
22-Feb	Non-parametric Models , Basics, Decision Trees	Pradeep Ravikumar
27-Feb	Lazy learners, K nearest neighbors	Aarti Singh
6-Mar	Kernel Regression, Splines	Aarti Singh
8-Mar	Kernel Trick, Kernel SVMs	Aarti Singh
13-Mar	Spring Break	
15-Mar	Spring Break	
20-Mar	Unsupervised Learning , Graphical Models	Pradeep Ravikumar
22-Mar	Graphical Models	Pradeep Ravikumar
27-Mar	Clustering , K Means	Aarti Singh
29-Mar	Clustering, Mixture of Gaussians	Aarti Singh
3-Apr	Latent Variable Models, Expectation Maximization	Pradeep Ravikumar
5-Apr	Midterm	
10-Apr	Hidden Markov Models, State Space Models	Pradeep Ravikumar
12-Apr	State Space Models Contd, Kernel Density Estimation	Pradeep Ravikumar
17-Apr	Feature Transformation , Random Features	Pradeep Ravikumar
19-Apr	Principal Component Analysis	Pradeep Ravikumar
24-Apr	Independent Component Analysis	Aarti Singh
26-Apr	Neural Networks	Aarti Singh
1-May	Deep Learning	Aarti Singh
3-May	Project: Class Discussion	