

Syllabus for EE219 (2018 Winter)

	Lecture 1(Monday)	Lecture 2(Wednesday)
Week1	Introduction	Case study of end to end data processing
Week2	Dimensionality Reduction (PCA)	Dimensionality Reduction (SVD)
Week3	Classifiers 1	Classifiers 2
Week4	Non-negative Matrix Factorization	Clustering: Kmeans
Week5	Recommendation Systems	Linear Regression, Regularization
Week6	Optimization: stochastic gradient	Non-linear Regression
Week7	Neural networks, Backpropagation	Hidden Markov Models
Week8	Graphical Models 1	Graphical Models 2
Week9	Reinforcement Learning 1	Reinforcement Learning 2
Week10	Advanced topics in Machine learning 1	Advanced topics in Machine learning 2