CS 542 Machine Learning Fall, 2014
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Office hours: Monday 3-4, Tuesday 9-10, Wednesday 3-4, Thursday 9-10.

Web page: www.cs.sunyit.edu/faculty/mike/cs542/cs542.html

Topics covered will include the following:
• Supervised, unsupervised and semisupervised learning
• Lazy vs. eager learning
• Clustering
• Nearest neighbor classification
• Bayesian classification
• Decision trees
• Perceptrons, support vector machines
• Neural networks
• Bayesian networks, discovering causal structure
• Ensemble learning (bagging, boosting, etc.)
• Feature selection
• Novelty detection, error costs, ROC analysis
• Association rule learning
• Concept learning

Student Objectives: Students will become familiar with core concepts in the area of machine learning. Students will also have the opportunity to do some more programming.

Grades will be based on two exams and a term project.
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