CS4375 - Introduction to Machine Learning

**CS 4375** Introduction to Machine Learning (3 semester credit hours) Algorithms for creating computer programs that can improve their performance through learning. Topics include: cross-validation, decision trees, neural nets, statistical tests, Bayesian learning, computational learning theory, instance-based learning, reinforcement learning, bagging, boosting, support vector machines, Hidden Markov Models, clustering, and semi-supervised and unsupervised learning techniques. Prerequisites: (**CS 3341** or **SE 3341**) and (**CE 3345** or **CS 3345** or **SE 3345** or **TE 3345** or equivalent). (3-0) Y