Course Description
Introduce fundamental problems in machine learning. Provide understanding of techniques, mathematical concepts, and algorithms used in machine learning. Provide understanding of the limitations of various machine learning algorithms and the way to evaluate performance of learning algorithms. Topics include: Introduction, Regression, Kernel methods, Generative learning, Discriminative learning, Neural networks, Support vector machines, Graphical models, Unsupervised learning, Dimensionality reduction.

Prerequisites
CS430.

Date and Location
Tuesday-Thursday: 3:15pm – 4:30pm
SB 104

Instructor
Mustafa Bilgic
Office hours: Tuesdays 11am – 12pm
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Teaching Assistant
None at the moment

Textbook
Highly recommended textbook for this course is Introduction to Machine Learning, 3rd Edition, by Ethem Alpaydin.
Textbook website: http://www.cmpe.boun.edu.tr/~ethem/i2ml3e/
Online Tools
For questions and answers, please use Piazza: https://piazza.com/iit/fall2016/cs584
Course slides, assignments, and projects will be handled through Blackboard: https://blackboard.iit.edu/

Grading
Assignments/Quizzes: 20%
Project: 15%
Midterm: 30%
Final: 35%

Programming Language
Python 3.5.

Late Submission Policy
Assignments/quizzes will be handled through Blackboard and submission will close automatically right on the clock.
Project submission will be through Blackboard as well, though submission will not be handled by Blackboard. Every late minute will cost you 1 point. No exceptions!

Code of Academic Honesty
https://web.iit.edu/student-affairs/handbook/fine-print/code-academic-honesty

Americans with Disabilities Act (ADA) Policy
Reasonable accommodations will be made for students with documented disabilities. In order to receive accommodations, students must obtain a letter of accommodation from the Center for Disability Resources. The Center for Disability Resources (CDR) is located in 3424 S. State St., room 1C3-2 (on the first floor), telephone: 312.567.5744 or disabilities@iit.edu.