CIS 678 Machine Learning

Midterm feedback review (70% response rate)

Major feedback points (Quadrants)

Balance between theory and practical; in class coding

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Sharing of Notebooks prior to the class

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Assignments

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Sharing of Notebooks prior to the class	Balance between theory and practical; in class coding
Assignments	Presentation/clarity of concepts

Progress sheet: CIS 678 - 01

Week of	Topic (higher level)	Topic	Activity	Objective: Higher level

Jan 08	Course introduction & Math and Probability Basics	Course introduction, regulations, and policies
		Math, Probability Basics (very brief; mainly directives)
				• Onboarding activities
				• Sustainable level field preparation:
				  ○ Math
				  ○ Programming

Jan 15	General idea of ML (connection to Math and Probability)	Polynomial curve fitting, connection between method of least squares and maximum likelihood learning.	Martin Luther King Jr. Day recess (Jan 15)	
Jan 22	Supervised learning	Parametric and non parametric regression models	Class test 1 (30 min)	**Predictive modeling (ML)** - Regression problems - Classification problems - ML tools (**sklearn**)
Jan 29		Parametric and nonparametric classification models		
Feb 05		Ensemble methods	Class test 2 (30 min)	
Feb 12		Model selection, HP optimization		
Feb 19	Unsupervised learning	Unsupervised learning (clustering)	Class test 3 (30 min)	**Unsupervised learning**
Feb 26	Dimensionality reduction	Curse of dimensionality, Linear Dimensionality Reduction	Spring Break (March 03-10)	

QA