

CourseCS 6375.501 – Machine LearningProfessorDr. Anurag NagarTermFall 2015MeetingsM, W 5:30 – 6:45 PM, Location: ECSS 2.412

Professor's Contact Information

Office Phone	TBA	
Office Location	ECSS 4.403	
Email Address	axn112530@utdallas.edu	
Office Hours	M, W: 3:15 – 5:15 PM; Fri: 6:45-7:45 PM in GR 3.420	
Other Information	Walk-in during office hours is encouraged. At other times, email is the	
	best method of contact.	
MidTerm	October 5, 2015 during class	
Final	December 16, 2015 Time: 5:00pm-7:45pm Location: ECSS 2.412	
General Course Information		
-	CS5343 Algorithm Analysis and Data Structures.	
Pre-requisites, Co- requisites, & other restrictions	You are expected to have basic programming skills as well as knowledge of elementary data structures and probability theory	
Course Description	The main objective of this course is to introduce students to machine learning, the study of computer systems that improve their performance <i>automatically</i> through experience. Students will learn the latest machine learning algorithms and models that constitute typical machine learning systems. They will also gain the necessary foundations and background to both build practical machine learning systems and conduct research in machine learning.	
Learning Outcomes	Ability to understand and apply basic learning algorithms Ability to understand and apply computational learning theories Ability to understand and apply advanced learning algorithms	
	Machine Learning by Tom Mitchell	
Required Texts &	Machine Learning: a Probabilistic Perspective by Kevin Murphy.	
Materials	Pattern Recognition and Machine Learning by Christopher M. Bishop.	
Successful Tarts	Pattern Classification, 2nd Edition by Richard O. Duda, Peter E. Hart, David G. Stork. <u>The Elements of Statistical Learning: Data Mining, Inference, and</u> Prediction by Trayor Hestia, Pobert Tibebirghi and Jaroma Friedman	
Boodings &	Data Mining: Practical Machine Learning Tools and Techniques (Third	
Neaunigs, & Matariale	Edition by Ion H. Witton Eile Fronk and Mark A. Hell	
Iviatel lais	Edition by fair n. which, Elbe Frank and Marking A denting (A denting Commutation and Marking Learning)	
	Principles of Data Mining (Adaptive Computation and Machine Learning)	
	by David J. Hand, Heikki Mannila and Padhraic Smyth.	

Assignments & Academic Calendar

Assignments will be through eLearning. For academic calendar see: https://www.utdallas.edu/academiccalendar/files/AcademicCalendarFall2015.pdf

Course Policies

Grading (credit) Criteria	40% Homework, 25% Midterm, 30% Final, 5% Quizzes and Class Participation.
Late Work	5% penalty for each late day
Class Attendance	Classroom attendance is required. Surprise quizzes and classroom assignments will be administered.
Classroom Citizenship	Please be considerate of fellow students and the instructor. Please turn off all electronic devices during class hours. Participate actively in classroom and online (through eLearning) discussion.
Comet Creed	This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same: "As a Comet, I pledge honesty, integrity, and service in all that I do."
UT Dallas Syllabus Policies and Procedures	The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please go to <u>http://go.utdallas.edu/syllabus-policies</u> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.