Note: Changes in effect from March 30 are highlighted.		
	Course	STAT 6340.001: Statistical and Machine Learning
(LIZE)	Professor	Pankaj Choudhary
ullp	Term	Spring 2020
	Meetings	MW 10:00-11:15 (CB3 1.302) All lectures will be held online using Blackboard Collaborate, available via eLearning.

Professor's Contact Information

Office Phone	972-883-4436 Office is closed so this number will not work. Email me instead.	
Office Location	FO 2.408 B	
Email Address	pankaj@utdallas.edu	
Office Hours	MW 11:15 – 12:00 noon or by appointment These office hours will now be held online using Blackboard Collaborate, available via eLearning.	
Other Information	eLearning at https://elearning.utdallas.edu/ will be used for posting course materials.	

General Course Information

Pre-requisites, Co-requisites, & Other Restric- tions	STAT 5353 or equivalent.	
Course Description	Statistical and machine learning methods will be developed at an intermediate level.	
Learning Out- comes	 Students will be able to analyze data using basic statistical and machine learning methods. Students will be able to use R software package for data analysis. 	

Required Texts & Materials		
Suggested Texts, Readings, & Ma- terials	 Statistical and machine learning: The Elements of Statistical Learning, 2nd edition, Hastie, Tibshirani, and Friedman, Springer, 2009 (visit https://web.stanford.edu/~hastie/ElemStatLearn for a PDF of the book and other related materials) Machine Learning: A Probabilistic Perspective, Murphy, MIT Press, 2012 R software system: An Introduction to R (PDF available on eLearning) Advanced R (HTML file available at http://adv-r.hadco.nz) 	
Teaching As- sistant	Dipnil Chakraborty (<u>Dipnil.Chakraborty@utdallas.edu</u> , FO 1.204, desk: P) Office hour: Tue and Thu, 2 - 3 pm or by appointment These office hours will now be on Tue and Thu from 1:00-2:100 pm. They will be held online using Blackboard Collaborate, available via eLearning.	

Academic Calendar

Tentative Course Schedule	
	Book Chapters
2 weeks	1-3 [Note: Chapter 3 will not be taught in the class as it is part of the pre-requisite. However, you are required to read it as the materials from this chapter will be used in later chapters and also in projects. Two optional sessions will be held to go over this chapter. More details regarding the sessions will be announced in the class.]
3 weeks	4-5
3 weeks	6-7

3 weeks	8-9
2 weeks	10
2 weeks	Deep Learning (not covered in the book; if time permits)
Exam Schedule & Mini-project Due Dates	
Project 1	Jan 29
Project 2	Feb 12
Test 1	Feb 19
Project 3	Mar 4
Project 4	Mar 25
Project 5	Apr 8
Project 6	Apr 22
Test 2	Apr 29 Test 2 will now be given online via eLearning on May 6 from 11:00-12:15.

Course Policies

Grading (credit) Crite- ria	 Test 1: 25% Test 2 (comprehensive): 35% Six mini-projects: 40% (Additional details will be provided later) The tests will be based on a specified range of course content to be announced in the class. The use of a calculator is required. For each test, each student must bring a scantron score sheet, FORM NO. F-1712-PAR-L. The scantron sheets should be clean and not bent or mutilated. These are available in the bookstore. The instructor will NOT be providing these. For each test, each student must bring a No. 2 pencil with a good eraser for use with the scantron sheet. The instructor will NOT be providing these. Incomplete grade is possible only in the case of a documented serious medical emergency near the end of the semester, with at least 70% of work completed at an on-going passing grade. Homework will be assigned but will not be collected or graded. The tests are closed-book, closed-notes. The projects may not have equal weight. A bonus project may be assigned. The projects will need to submitted via on eLearning by specified date and time.
Tentative Grading Scheme	93 or higher: A [90, 93): A- [87, 90): B+ [83, 87): B [80, 83): B- [75, 80): C+ [70, 75): C Lower than 70: F
Make-up Poli- cy	No make-up work will be given unless there is a serious medical emergency and appropriate documentation is provided in a timely manner. It may be possible take a test early for reasons such as travel.
Extra Credit	No extra credit work will be assigned.
Late Work	No late work will be accepted. It may be possible to submit the work early.
Class Atten- dance	Although attendance is not mandatory, you are encouraged not to miss any class as the course will move at a fast pace. The instructor will not make any accommodations for missing a class.

Electronic De- vices	The use of any electronic devices (except a calculator) is prohibited. In particular, cell phones, laptops, iPads, and the like must not be put on the desk. For any exception from this rule, ask the instructor for permission. On certain days (announced in advance), the instructor may encourage to bring a laptop.
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 descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.