Live Meeting and Assignment Dates

#	Date	Topic	Assignments
01	01/19	Course Introduction	Read chapter 1 of 2019BurkovTheHundred.pdf (https://canvas.tufts.edu/courses/44718/files/5560507?wrap=1) (https://canvas.tufts.edu/courses/44718/files/5560507/download)
02	01/24	Python Programming	
03	01/23	Python (continued): Numpy and Pandas	Ch 4-5 of Python4DataAnalysis.pdf (https://canvas.tufts.edu/courses/44718/files/5560491?wrap=1)
04	01/31	Pandas (continued); What is data? What kind of data? Numerical Representation.	**Assignment 01** out (due Mon. 13 Feb.; 11:59 PM) CH 2 of 2019BurkovTheHundred.pdf (https://canvas.tufts.edu/courses/44718/files/5560507?wrap=1) (https://canvas.tufts.edu/courses/44718/files/5560507/download)
05	02/02	Data (continued); Simple Linear Regression	CH 3 of 2019BurkovTheHundred.pdf (https://canvas.tufts.edu/courses/44718/files/5560507?wrap=1)
06	02/07	Regression (continued); Bias-Variance Trade-off	
	02/08	DROP DEADLINE	
07	02/09	Evaluating performance; Feature engineering	
08	02/14	Perceptron learning; regularization	**Assignment 02** out (due Tues. 28 Feb.; 11:59 PM)
09	02/16	Logistic regression and K-Nearest Neighbours;	
10	02/21	Support Vector Machines (SVMs) Kernels and SVMs	**Practice Midterm** out

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	02/23	**NO CLASS (SWAP DAY)**	
11	02/28	SVMs (continued); Midterm review;	
12	03/02	**Midterm (in-class)**	**Project 01** out (due Fri. 17 March.; 11:59 PM)
13	03/07	Building Decision Tree Classifiers; Ensemble Methods	
14	03/09	Ethics and fairness in ML	
15	03/14	Explainable AI	**Assignment 03** out (due Wed. 29 March.; 11:59 PM)
16	03/16	Naive Bayes Classifier	**Project 02** out (due Fri. 7 April.; 11:59 PM)
	03/20- 03/24	**SPRING BREAK WEEK**	
17	03/24	Building a basic neural network model	
18	03/30	Model convergence; Parameter tuning in neural nets	
19	04/04	Deep Learning: Overview of the model types, applications, and state-of-the-art	**Assignment 04** out (due Wed. 19 April.; 11:59 PM)
20	04/06	Clustering techniques (unsupervised learning)	
21	04/11	Clustering techniques (continued)	
22	04/13	Dimensionality Reduction	(OPTIONAL) **Project 03** out (due Wed., 26 April.; 11:59 PM)
23	04/18	Recommendation Systems	

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24	04/20	Recommendation Systems (continued)	
25	04/25	TBD	
26	04/27	Course wrap-up; What's next?	