Week	Date	Tuesday Lecture	Thursday Lecture	Code Examples	Paper Reading	HW
1	08/19 - 08/23	Course Overview	Data Sci. Introduction, Python Programming	Intro. To PythonSetting up Google Colab	-	-
2	08/26-08/30 (Add/Drop)	EHR, NumPy	ML Metrics	NumPy IntroToxicity PredictionSolubility Prediction	Watson Oncology	
3	09/02 - 09/06	Pandas, Preprocessing	Version Control	Pandas IntroPreprocessing (5)Setting up Git		HW1
4	09/09 - 09/13	RF, kNN	Biophysical Modeling	kNNRFBiophysical Modeling	Septic Shock Prediction	
5	09/16 - 09/20	Evaluation	SVM	• Evaluation		HW2
6	09/23 - 09/27	Neural Network	Neural Network, Deep Learning	FC Networks	Melanoma Detection	
7	09/30 - 10/04	Review	Exam 1			
8	10/07 - 10/11	ConvNet	Convnet (cont.)	• CNN	Adversarial Attacks	
9	10/14 - 10/18	CNN Architectures	Microscopy	Cell CountingCell Segmentation		HW3
10	10/21 - 10/25	RNN	RNN	Physiological Signals (MIMIC)	Drug Discovery	
11	10/28 - 11/01	Intro to NLP	NLP Representations	Clinical Notes		HW4
12	11/04 - 11/08	Generative Models	Genomics	 Generating Drug Molecules TF Binding RNA Interference Chromatic Accessibility 		
13	11/11 - 11/15	Feature Selection	Guest Lecture			HW5
14	11/18 - 11/22	Review	Exam 2			
15	11/25 - 11/29	Ethical AI	Holiday			
16	12/02 - 12/06		Reading Day			