



Schedule

RIT Academic Calendar:
<https://www.rit.edu/calendar>

Machine Learning Schedule: Fall 2022

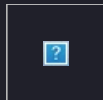
Week	Topics	Deliverables	Notes	Sources
1 August 22	Overview: What exactly is Machine Learning? Classification vs. Regression: Choosing vs. Scoring/Ranking		Tues Aug 23 First Lecture	* Hastie Ch. 1, 2.1-2.3 * Review #ml-applications on discord
2 August 29	Least Squares: A parametric linear regression and classification model k-Nearest Neighbors: A non-parametric regression and classification model	Thursday: Quiz 1	Monday Aug 29 Add/Drop ends	
3 September 5	Bayesian Decision Theory Example: parametric models using Gaussian feature distributions	Tuesday: Assignment 1 (Least Squares, Nearest N.) Thursday: Quiz 2	Prof. Zanibbi away Lectures from TA/online	Readings in MyCourses: * Charniak SLL Ch 2 * Duin et al Ch 2
4				

September 12	Bayesian Decision Theory, continued	Thursday: Quiz 3		
September 19	Support Vector Machines: Optimal linear binary classification (i.e., for two classes)	Thursday: Quiz 4	Career Fair	Hastie Ch. 12.1-12.1.3
September 26	Ensembles: Combining classifiers, regression using multiple models (e.g., decision tree ensembles)	Thursday: Quiz 5		Hastie Ch 9.2, 15 (skim) Crimini 3.1-3.4
October 3	Neural Networks: Overview Loss functions & Backpropagation Example Neuron: 'Classic' Perceptron	Tuesday: Assignment 2 (Bayesian) Thursday: Quiz 6		Charniak DL Chs 1 and 2
October 10	Backpropagation & Autogradient Data use and training networks		Mon-Tues (Oct 10-11): Fall Break Lecture Canceled Tuesday	
October 17	Basic neural nets in TensorFlow	Tuesday: Assignment 3 (SVM/Ensembles) Thursday: Quiz 7	Thursday: Group Project Overview	
October 1		Wednesday:		

Oct 24	TensorFlow	Group teams due		
Oct 31	Convolutional Neural Networks CNNs, continued	Thursday: Project Proposal		Charniak DL, Ch 3
Nov 7	Recurrent Neural Networks		Registration Wk (for Spring 2023)	Charniak DL, Ch 4
Nov 14		Tuesday: Quiz 8 Thursday: Assign 4 (CNNs)	Tuesday: Group Project Discussion <i>Course evaluation forms available</i>	
Nov 21		Tuesday: Quiz 9	Tuesday: Group project discussion Wed-Fri (Nov 23-25): Thanksgiving Break Lecture Cancelled Thursday	
Nov 28	Final topics + Project	Friday: Quiz 10		
Dec 1	Exam Week:	Monday: Assign 5	Mon Dec 5 End of Classes Tues	

6	No Lectures	(RNNs)	Dec 6
D	Exam on	Friday	Reading
e	Friday	(Exam):	Day
c	1:30pm-	Project	Friday
5	4pm	Presentat	Dec 9
		ion	**Exam,
			1:30-
			4pm

			Wed
			Dec 14
1			Last Day
7			of
D	Exam Week:	Monday:	Exams
e	(Class	Project	Fri Dec
c	finished)	report	16
1		+ code	Final
2			Grades
			Due



Machine Learning

Home & News

Syllabus

Schedule

Contact Instructor & TA

Resources

MyCourses

