



Full Syllabus

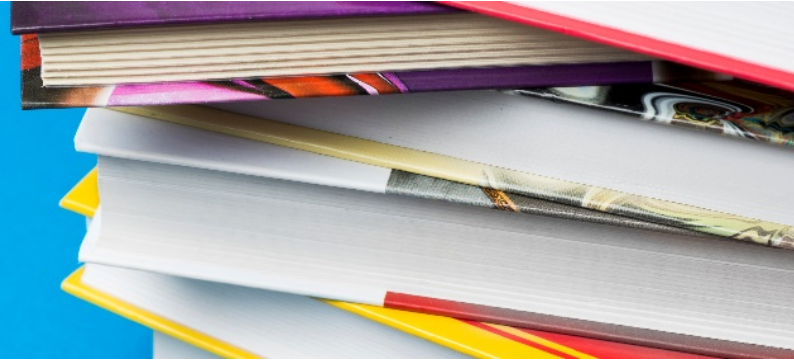


Course Title	
Introduction to Machine Learning	
Lecturer	
Dr. Nadav Cohen	
Semester	
Fall	
Course requirements	
See catalog	
Final grade components	
20% homework assignments, 80% final exam	
Course schedule	
Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
1	Introduction to the course and to machine learning. K-Nearest Neighbor algorithm
2	PAC model and basic Generalization bounds
3	Generalization bounds: VC dimension, Rademacher Complexity, Model Selection
4	Perceptron algorithm and mistake bound
5	Support Vector Machines (SVM)
6	Kernels
7	Stochastic Gradient Descent and Deep Learning
8	Decision Trees
9	Boosting and ensemble methods
10	Regression and PCA
11	Clustering and Generative Models
12	Gaussian mixture model (GMM) and Expectation Maximization (EM)
13	Graph Based Methods and Summary
Required course reading	
Optional course reading	



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<https://www.cs.huji.ac.il/~shais/UnderstandingMachineLearning/understanding-machine-learning-theory-algorithms.pdf>

Comments