

CM 146: Introduction to Machine Learning (Winter 2023)

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A tentative list of topics

1. 1.1 1/9 Intro, supervised learning setup
2. 1.2 1/11 Decision Trees (CIML 1)
3. 2.1. 1/16 No class
4. 2.2 1/18 Nearest neighbors (CIML 3)
5. 3.1 1/23 Linear classification (perceptron) (CIML 4)
6. 3.2 1/25 Logistic regression (CIML 9.1-9.2,9.6-9.7)
7. 4.1 1/30 Naive Bayes.
8. 4.2 2/1 Linear regression (CIML 6-6.2, 6.4-6.6).
9. 5.1 2/6 Overfitting and regularization (CIML 2). Evaluation.
10. 5.2 2/8 Neural Nets (CIML 10)
11. 6.1 2/13 Learning theory (CIML 12).
12. 6.2 2/15 Kernels (CIML 11).
13. 7.1 2/20 No class
14. 7.2 2/22 SVMs (CIML 7.7).
15. 8.1 2/27 Multi-class classification.
16. 8.2 3/1 Ensemble methods (CIML 13).
17. 9.1 3/6 PCA (CIML 15.2).
18. 9.2 3/8 Clustering (CIML 15.1).
19. 10.1 3/13 Mixture models.
20. 10.2 3/15 HMMs.