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Week 1

- Introduction

Introduction and course logistics PPT

Data and Features PPT

Week 2

- Classification

Learning with prototypes PPT

Exotic distances and nearest neighbors PPT

Demo: LwP

Week 3

- Classification

Sources of Error PPT

Quiz 1

Learning with decision trees PPT

Demo: Decision tree learning

Week 4

- Regression

PPT

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Optimization for ML

Assignment 1 Submitted

Week 5

- Optimization

Optimization (contd) PPT

Week 6

- Probability

Probability basics PPT

Expectation and MLE PPT

- Review

Midsem review PDF

Mid Sem Exam

Assignment 2 Submitted

Week 7

- Regression

Bayesian linear regression PDF

- Probability

MAP and Bayesian estimation PPT

Week 8

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Demo: LR and SVMs

- Probability

Logistic Regression and MCMC sampling

Week 9

- Evaluation

Evaluation and fairness

ML in the real world

Week 10

- Optimization

The kernel trick

Quiz 2

Assignment 3 Submitted

Kernelizing ML algorithms

Week 11

- Clustering

k-means

Week 12

- Clustering

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PCA

Week 13

- Clustering

Dimensionality reduction (contd.)

Latent variable models

Expectation Maximization

Assignment 4 — Submitted

Week 14

- Deep Learning

Deep Learning

More deep learning

Practice Quiz

VAEs and GANs

End Sem Exam