Machine Learning Basics

Lecture slides for Chapter 5 of *Deep Learning* www.deeplearningbook.org Ian Goodfellow 2016-09-26

Linear Regression



Underfitting and Overfitting in Polynomial Estimation



Generalization and Capacity







(Goodfellow 2016)

Weight Decay



Bias and Variance



Decision Trees





Figure 5.7

(Goodfellow 2016)

Principal Components Analysis



Curse of Dimensionality









Uniformly Sampled Images



QMUL Dataset

