Courses / Machine Learning / Introduction

Machine Learning

Introduction

Statistical Learning

Curse of Dimensionality

PCA

Regression Function f(x)

Linear Regression

Correlation

Overfitting

Regularization

Bias Variance TradeOff

Metrics for Evaluation

Model Validation

Tree Based Method

SVM

GA

- > Discrete Structures
- > Web Applications
- > Probability Theory
- > Principles of Programming languages
- > Database Design and Development
- > Data Structures
- > Computer Vision
- > Data Visualization and Communication
- > Linear Algebra

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Unsupervised Learning

- With unsupervised learning there is no outcome variale, just a set of predictors (features) measured on a set of samples.
- Objective is more fuzzy: find groups of samples that behave similarly, find features that behave similarly, find linear combinations of features with the most variation.
- Difficult to know how well you are doing.
- Different from supervised learning but can be useful as a pre-processing step for supervised learning.
- Key difference: predict the cluster of a data record without predicting an explicit label



