

Machine Learning Algorithms and Concepts

Table of Content

Part I: Introduction & Preliminary Requirements

- Ch1: Basic Concepts
- Ch2: Visualization
- Ch3: Probability and Statistics

Part II: Unsupervised Learning

- Ch4: Clustering
- Ch5: Frequent Itemset and Sequence Mining

Part III: Data Engineering

- Ch6: Feature Engineering
- Ch7: Dimensionality Reduction and Data Decomposition

Part IV: Supervised Learning

- Ch8: Regression Analysis
- Ch9: Classification

Part V: Neural Network

- Ch 10: Neural Networks and Deep Learning
- Ch 11: Self-Supervised Deep Learning
- Ch 12: Deep Learning Models and Applications (Text, Vision, and Audio)

Part VI: Reinforcement Learning

- Ch13: Reinforcement Learning

Part VII: Other Algorithms and Concepts

- Ch 14: Making Lighter Machine Learning Models
- Ch 15: Graph Mining Algorithms
- Ch 16: Concepts and Challenges of Working with Data