Machine Learning

Course Description

Machine learning is a field of scientific study concerned with algorithmic techniques that enable machines to learn performance on a given task via the discovery of patterns or regularities in exemplary data. Consequently, its methods commonly draw upon a statistical basis in conjunction with the computational capabilities of modern computing hardware. This course aims to acquaint the student with the main branches of machine learning and provide a thorough introduction to the most widely used approaches and methods in this field.

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   2. Supervised & Unsupervised Learning
   3. Reinforcement Learning
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   3. Expectation Maximization
   4. DBScan
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3. Regression
   1. Linear & Non-linear Regression
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6.1 Introduction to Genetic Algorithms

1. Applications of Genetic Algorithms