Machine Learning: A Very General Guide

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Abstract

This is a simple document which will make some v. general notes on things connected to "Machine Learning". This document can be found at:
`https://github.com/d80b2t/Research_Notes/tree/master/MachineLearning`.

1 Introduction

From Wikipedia, retrieved, 05Dec2016:

Machine learning is the subfield of computer science that "gives computers the ability to learn without being explicitly programmed" (Arthur Samuel, 1959).[1] Evolved from the study of pattern recognition and computational learning theory in artificial intelligence,[2] machine learning explores the study and construction of algorithms that can learn from and make predictions on data[3] such algorithms overcome following strictly static program instructions by making data driven predictions or decisions,[4]:2 through building a model from sample inputs. Machine learning is employed in a range of computing tasks where designing and programming explicit algorithms is unfeasible; example applications include spam filtering, detection of network intruders or malicious insiders working towards a data breach,[5] optical character recognition (OCR),[6] search engines and computer vision.

Broadly, there are 3 types of Machine Learning Algorithms:

1. Supervised Learning
2. Unsupervised Learning
3. Reinforcement Learning

2 Useful URLs and References

http://www.zdnet.com/topic/how-to-implement-ai-and-machine-learning/