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List of machine learning concepts

From Wikipedia, the free encyclopedia

(Redirected from [List of machine learning algorithms](#))

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- Supervised learning
 - Artificial neural network
 - Association rule learning
 - Hierarchical clustering
 - Cluster analysis
 - Outlier Detection
- Semi-supervised learning
- Reinforcement learning
- Deep learning
- Others

Supervised learning [edit]

- AODE
- Artificial neural network
 - Backpropagation
 - Autoencoders
 - Hopfield networks
 - Boltzmann machines
 - Restricted Boltzmann Machines
 - Spiking neural networks
- Bayesian statistics
 - Bayesian network
 - Bayesian knowledge base**
- Case-based reasoning
- Gaussian process regression
- Gene expression programming
- Group method of data handling (GMDH)
- Inductive logic programming
- Instance-based learning
- Lazy learning
- Learning Automata
- Learning Vector Quantization
- Logistic Model Tree
- Minimum message length (decision trees, decision graphs, etc.)
 - Nearest Neighbor Algorithm
 - Analogical modeling
- Probably approximately correct learning (PAC) learning
- Ripple down rules, a knowledge acquisition methodology
- Symbolic machine learning** algorithms
- Support vector machines
- Random Forests
- Ensembles of classifiers
 - Bootstrap aggregating (bagging)
 - Boosting (meta-algorithm)

- Ordinal classification
- Information fuzzy networks (IFN)
- Conditional Random Field
- ANOVA
- Linear classifiers
 - Fisher's linear discriminant
 - Logistic regression
 - Multinomial logistic regression
 - Naive Bayes classifier
 - Perceptron
 - Support vector machines
- Quadratic classifiers
- k-nearest neighbor
- Boosting
- Decision trees
 - C4.5
 - Random forests
 - ID3
 - CART
 - SLIQ
 - SPRINT
- Bayesian networks
 - Naive Bayes
- Hidden Markov models

Unsupervised learning [\[edit\]](#)

- Expectation-maximization algorithm
- Vector Quantization
- Generative topographic map
- Information bottleneck method

Artificial neural network [\[edit\]](#)

- Self-organizing map

Association rule learning [\[edit\]](#)

- Apriori algorithm
- Eclat algorithm
- FP-growth algorithm

Hierarchical clustering [\[edit\]](#)

- Single-linkage clustering
- Conceptual clustering

Cluster analysis [\[edit\]](#)

- K-means algorithm
- Fuzzy clustering
- DBSCAN
- OPTICS algorithm

Outlier Detection [\[edit\]](#)

- Local Outlier Factor

Semi-supervised learning [\[edit\]](#)



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Reinforcement learning [edit]

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Deep learning [edit]

- [Deep belief networks](#)
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