100+ MACHINE LEARNING ALGORITHMS

By @TheInsaneApp

CLUSTERING

- k Means
- k Medians
- BIRCH
- Fuzzy C-Means
- Fuzzy K-Modes
- Mini Batch K-Means
- DBSCAN
- Fuzzy clustering
- Mean-shift
- Optics algorithm
- Expectation Maximization
- Hierarchical Clustering
- Minimum spanning tree

DIMENSIONALITY REDUCTION

- PCA Algorithm
- PCR Algorithm
- PLSR Algorithm
- Sammon Mapping
- MDS Algorithm
- Projection Pursuit
- LDA Algorithm
- ICA Algorithm
- NMF Algorithm
- RDA Algorithm
- MDA Algorithm
- PLSDA Algorithm
- QDA Algorithm
- CCA Algorithm
- Diffusion Map

REGRESSION

- Ordinary Least Squares Regression
- Linear Regression
- Logistic Regression
- Stepwise Regression
- MARS Algorithm
- Locally Estimated Scatterplot Smoothing

DECISION TREE

- Conditional Decision Trees
- Decision Stump
- C4.5 and C5.0
- CHAID
- CART
- ID3
- M5

BAYESIAN

- AODE
- Naive Bayes
- Gaussian Naive Bayes
- Multinomial Naive Bayes
- Bayesian Belief Network
- Bayesian Network

REINFORCEMENT LEARNING

- Q Learning
- SARSA Algorithm
- Deep Q-network
- Learning Automata
- DDPG Algorithm
- NAF Algorithm
- A3C Algorithm
- TRPO Algorithm
- PPO Algorithm
- Constructing Skill Trees

REGULARIZATION

- Ridge Regression
- Elastic Net
- LASSO
- LARS

EMSEMBLE

- GBDT
- GBRT
- Boosting
- Bagging
- AdaBoost
- Random Forest
- Blending Algorithm
- Stacked Generalization
- Gradient Boosting Machines

OTHER ML ALGORITHMS (Part 1)

- ALOPEX
- CN2 algorithm
- FastICA
- Feature selection Algorithms
- Linde Buzo Gray Algorithm
- Forward Backward algorithm
- Algorithm Accuracy Evaluation
- Performance Measures
- Optimization Algorithm
- Dynamic Time Warping
- Local Outlier Factor
- Logic Learning Machine
- Markov Chain Monte Carlo
- T Distributed Stochastic neighbor Embedding
- Wake Sleep Algorithm
- Prefrontal Cortex Basal Ganglia Working Memory

RULE SYSTEM

- Cubist
- OneR
- ZeroR
- Ripper

OTHER ML ALGORITHMS (Part 2)

- LogitBoost
- Sparse PCA
- Structured kNN
- WMA Algorithm
- GeneRec
- Leabra
- RProp

DEEP LEARNING

- CNN
- RNNs
- LSTMs
- Stacked Auto Encoders
- Deep Boltzmann Machine
- Deep Belief Networks

INSTANCE BASED

- Learning Vector Quantization
- K Nearest Neighbor
- Self-Organizing Map
- Locally Weighted Learning
- Support Vector Machines

ANNs

- Perceptron
- MLP Algorithm
- Back-Propagation
- Stochastic Gradient Descent
- Hopfield Network
- RBFN Algorithm

ARL

- Apriori Algorithm
- Eclat Algorithm
- FP Growth Algorithm