Regression
- Partial least squares
- Logistic Regression
- Stepwise Regression
- Support Vector Regression
- Neural Network
- Ordinary Least Squares Regression (OLSR)
- Linear Regression
- Multivariate Adaptive Regression Splines (MARS)
- Locally Estimated Scatterplot Smoothing (LOESS)

Instance-based
- k-Nearest Neighbor (k-NN)
- Self-Organizing Map (SOM)
- Locally Weighted Learning (LWL)
- Learning Vector Quantization (LVQ)

Regularization
- Ridge Regression
- Elastic Net
- Least Absolute Shrinkage and Selection Operator (LASSO)
- Least-Angle Regression (LARS)

Decision Tree
- C4.5 and C5.0 (different versions)
- Classification and Regression Tree (CART)
- Iterative Dichotomiser 3 (ID3)
- Chi-squared Automatic Interaction Detection (CHAID)
- Decision Stump
- Conditional Decision Trees
- M5

Bayesian
- Naive Bayes
- Bayesian Network (BN)
- Bayesian Belief Network (BBN)
- Gaussian Naive Bayes
- Multinomial Naive Bayes
- Averaged One-Dependence Estimators (AODE)

Clustering
- k-Means
- Expectation Maximization (EM)
- Hierarchical Clustering
- k-Medians

Association Rule
- Apriori algorithm
- Eclat algorithm

Neural Network
- Hopfield Network
- Perceptron
- Back-Propagation
- Radial Basis Function Network (RBFN)

Deep Learning
- Deep Boltzmann Machine (DBM)
- Deep Belief Networks (DBN)
- Convolutional Neural Network (CNN)
- Stacked Auto-Encoders

Dimensionality Reduction
- Principal Component Analysis (PCA)
- Principal Component Regression (PCR)
- Partial Least Squares Regression (PLSR)
- Sammon Mapping
- Projection Pursuit
- Multidimensional Scaling (MDS)
- Linear Discriminant Analysis (LDA)
- Mixture Discriminant Analysis (MDA)
- Quadratic Discriminant Analysis (QDA)
- Flexible Discriminant Analysis (FDA)

Ensemble
- Random Forest
- Boosting
- AdaBoost
- Bootstrapped Aggregation (Bagging)
- Stacked Generalization (blending)
- Gradient Boosting Machines (GBM)
- Gradient Boosted Regression Trees (GBRT)

Machine Learning categorization