Bayesian

* Averaged One - Dependence Estimators (AODE)
* Bayesian Network (BN)
* Bayesian Belief Network (BBN)
* Bayesian Linear Regression
* **Bayesian Logistic Regression**
* Gaussian Naive Bayes (GNB)
* **Hidden Markov Models (HMMs)**
* **Kalman Filter**
* Multinomial Naive Bayes (MNB)
* Naive Bayes (NB)
* Particle Filter

Clustering

* Affinity Propagation
* Agglomerative Clustering
* Density-Based Spatial Clustering of Applications with Noise (DBSCAN)
* Expectation Maximization (EM)
* Gaussian Mixture Models (GMMs)
* Hierarchical Clustering (Hclust)
* k-Means
* k-Medians
* Mean-Shift
* OPTICS (Ordering Points To Identify the Clustering Structure)
* Spectral Clustering

Decision Tree

* C4.5
* C5.0
* Classification and Regression Tree (CART)
* Chi-squared Automatic Interaction Detection (CHAID)
* Conditional Decision Trees (Conditional Inference Trees - CITs)
* Cubist
* Decision Stump
* Guided Trees / Hybrid Trees
* Iterative Dichotomiser 3 (ID3)
* M5 (Model Tree)
* Oblique Decision Trees
* Specific Implementations/Libraries

Deep Learning

* Deep Boltzman Machine (DBM)
* Deep Belief Networks (DBN)
* Reinforcement Learning (DL-based RL)
* Stacked Auto-Enconders
* Variational Autoencoders (VAEs)

Dimensionality Reduction

* Flexible Discriminant Analysis (FDA)
* Independent Component Analysis (ICA)
* Kernel PCA (KPCA)
* Linear Discriminant Analysis (LDA)
* Locally Linear Embedding (LLE)
* Mixture Discriminant Analysis (MDA)
* Multidimensional Scaling (MDS)
* Quadratic Discriminant Analysis (QDA)
* Partial Least Squares Regression (PLSR)
* Partial Least Squares Discriminant Analysis (PLSDA)
* Principal Component Analysis (PCA)
* Principal Component Regression (PCR)
* Projection Pursuit (PP)
* Sammon Mapping
* t-Distributed Stochastic Neighbor Embedding (t-SNE)
* Regularized Discriminant Analysis (RDA)
* Uniform Manifold Approximation and Projection (UMAP)

Ensemble

* Adaptive Boosting (AdaBoost)
* Boosting
* Bootstrapped Aggregation (Bagging)
* Bootstrap Aggregating Decision Trees
* CatBoost
* Extreme Gradient Boosting (XGBoost)
* Gradient Boosting Machines (GBM)
* Gradient Boosted Regression Trees (GBRT)
* Isolation Forest
* Light Gradient Boosting Machine (LightGBM)
* Random Forest
* Stacked Generlization (Blending)
* Voting/Majority Voting/Weighted Averaging

Instance Based

* Case-Based Reasoning (CBR)
* k - Nearest Neighbour (kNN)
* Kernel Regression / Nadaraya-Watson Estimator
* Learning Vector Quantization (LVQ)
* Locally Weighted Learning (LWL)
* Prototype-Based Learning (General Concept):
* Self-Organizing Map (SOM) / Kohonen Map:

Neural Network

* Autoenconder
* Back - Propagation
* Convolutional Neural Network (CNN)
* Generative Adversarial Networks (GANs)
* Hopfield Network
* Long Short-Term Memory (LSTM) / Gated Recurrent Unit (GRU):
* Multilayer Perceptron (MP)
* Perceptron
* Radial Basis Function Network (RBFN)
* Recurrent Neural Networks (RNNs)
* Restricted Boltzmann Machine (RBM)
* Transformers

Regression

* Ordinary Least Squares Regression (OLSR)
* Linear Regression
* Regresión Logística
* Least Angle Regression (LARS)
* Locally Estimated Scatterplot Smoothing (LOESS)
* Multivariate Adaptive Regression Splines (MARS)
* Polynomial Regression
* **Quantile Regression**
* Stepwise Regression
* Support Vector Machine (SVM)

Regularization

* Elastic Net
* Ridge Regression
* Least Absolute Shrinkage and Selection Operator (LASSO)

Decision Rules

* Associative Classification (e.g., CBA, CMAR, FP-Growth based methods):
* CN2 Algorithm
* Decision List/Decision Tree to Rules (General Concept):
* Lógica Difusa (Fuzzy Logic)
* Minsky's Perceptron
* One Rule (OneR)
* Repeated Incremental Pruning to Produce Error Reduction (RIPPER)
* Rule Fit
* Rule System
* Zero Rule (ZeroR)