	Introduction	error minimization	Е
В	batch learning	Laplace smoothing	L
С	curse of dimensionality	loss function	
D	decision boundary	naïve Bayes	N
F	feature / attribute	risk minimization	R
G	generalization	scaling	S
L	label		
М	machine learning	Density Estimation	
Ο	model / hypothesis Occam's razor	Bayesian information criterion (BIC) binning	В
P	online learning overfitting prediction	EM algorithm Gaussian distribution	E
R	predictor reinforcement learning	Gaussian kernel Gaussian mixture model	
S	semi-supervised learning supervised learning	histogram independent and identically distributed (iid) kernel density estimation	I K
U	underfitting unsupervised learning	latent variable likelihood	L
	Decision Theory	log-likelihood maximum likelihood estimation	N
В	Bayes optimal	mixture model	
	Bayes' theorem	multivariate Gaussian distribution	
С	class conditional probability	nearest neighbors	N
	class prior probability conditionally independent	non-parametric models observed variable	O

Р	parametric models	Classification	
	Parzen window		
		activation (function)	Α
		AdaBoost	
	Regression	average entropy	
		backpropagation	В
В	basis function (polynomial, RBF)	bagging	
	batch gradient descent	batch-normalization	
D	data input space	binary classification	
	design matrix / regressor matrix	boosting	
Е	elastic net	classification and regression trees (CART)	С
F	feature mapping	convolutional neural network (CNN)	
G	gradient descent	cosine similarity	
Н	hypothesis space	cross entropy	
L	Lasso regression	decision tree	D
	learning rate (α)	deep learning	
M	mini-batch gradient descent	distance metric	
N	noise	ensemble methods	E
	normal equation	entropy	
О	ordinary least squares (OLS)	epoch	
Р	precision	Euclidean distance	
	probabilistic regression	ExtraTrees	
R	regression	fully connected neural network	F
	regularization	Gain ratio (GR)	G
	ridge regression	Gini index	
S	squared error	hidden layer	Н
	stochastic gradient descent	hinge loss	

ID3	tangent hyperbolic (tanh)	Т
information gain (IG)	word2vec	W
intrinsic information (IntI)		
k-nearest neighbors	Evaluation	
lazy learning		A
Manhattan distance	accuracy	А
Minkowski distance	area-under-the-curve (AUC)	D.
multi-class classification	bias	В
Multi-layer perceptron (MLP)	confusion matrix	С
negative log-likelihood	cross-validation (X-Val)	
neural network	dev split	D
one-hot encoding	early stopping	Е
one-vs-one (OvO)	F_1 -score	F
one-vs-rest (OvR)	grid search	G
	leave-one-out cross-validation (LOO X-Val)	L
•	macro average	M
-	mean absolute error (MAE)	
	micro average	
	out-of-sample testing	О
	precision	Ρ
	precision-recall curve	
,	random search	R
,	recall	
- , ,	receiver operating characteristic (ROC)	
	root mean square error (RMSE)	
	stratified split	S
Sumana deviation reduction (SDIC)	test split	Т
	information gain (IG) intrinsic information (IntI) k-nearest neighbors lazy learning Manhattan distance Minkowski distance multi-class classification Multi-layer perceptron (MLP) negative log-likelihood neural network one-hot encoding	information gain (IG) word2vec intrinsic information (IntI) k -nearest neighbors Evaluation k -nearest neighbors excurrence (AUC) k -nearest neigh

train split

v variance

Unsupervised Learning

- ^A affinity-based clustering agglomerative clustering
- ^c centroid

cluster

clustering

complete linkage

- dendrogram
 - dimensionality reduction
- eigenvalue problem

elbow method

EM-based clustering

- hierarchical clustering
- k-means
- maximum variance formulation
- orthogonal projection
- P principal component analysis (PCA)
- s single linkage
- v vector quantization

voronoi diagram