

Statisitcs
LLN
Unbiasedness
Consistency
Hoeffding’s Inequality
Chebyshev’s Inequality
Properties of Gaussians
Bayes Rule
Conjugate Prior
Estimation
MLE
MAP
Bayesian Estimation
Learning Theory
PAC
Decision Theory
Common Loss Functions
Bayes Risk
Bayes Optimal Rule
Emperical Risk Minimization
Risk
True Risk
Emperical Risk
Excess Risk
Structural Risk
Risk Estimation
Bias–Variance Tradeoff
Hold–out Method

K–Fold Cross–Validation
LOO Cross–Validation
Random Subsampling
Risk Minimization
Emperical Risk Minimization
Structural Risk Minimization
Overfitting
Regularization
Complexity Regularization
Information Criteria
Model Selection
Generalization Error
Terms
True Risk Decomposition
Regression
Linear Regression
Ridge Regression
Lasso Regression
Polynomial Regression
Classification
Logistic Regression
Naive Bayes
Boosting
Decision Trees
Support Vector Machines
Deep Learning
Common Activation Functions

Backpropagation
Gradient Descent
Perceptron
MLP
CNN
RNN
LSTM
Clustering
KNN
Kernel Regression
Kernel Trick