

Task Level	Classification		Clustering		Regression		Recommendation
Modeling Level	General Linear Model	Kernel Method	Nearest Neighbor	Decision Tree	Factorization Machine	Graphical Model	Neural Networks
Solver Level	SVD,PCA,QR, Eigen,ALS...	GD,SGD,LBFGS, CG,CCD...		EM,VB...		Gibbs Sampling, Metropolis-Hastings,...	
	Linear Algebra Kernel	Numerical Optimization		Expectation Maximization		Markov Chain Monte Carlo	