Task Level	Classification	Clustering	Regression	Recommendation	Structure Learning	Dimensionality Reduction

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:EM,VB; BP; MCMC:GibbsSampling, Metropolis-Hastings,...
	Linear Algebra Kernel	Numerical Optimization	Statistical Inference