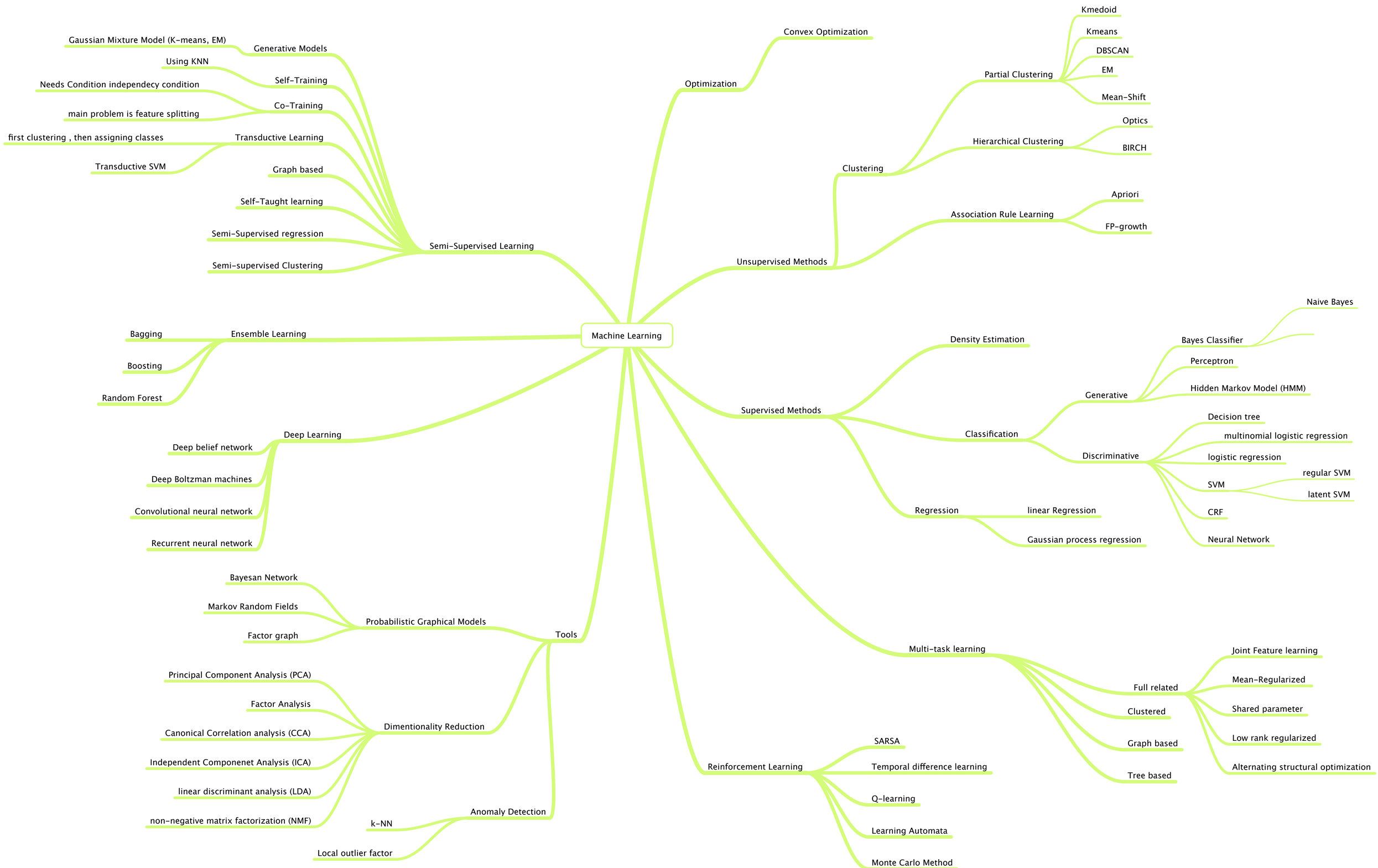
Machine Learning
Semi-Supervised Learning
Generative Models
Gaussian Mixture Model (K-means, EM)
Self-Training
Using KNN
Co-Training
Needs Condition independecy condition
main problem is feature splitting
Transductive Learning
first clustering , then assigning classes
Transductive SVM
Graph based
Self-Taught learning
Semi-Supervised regression
Semi-supervised Clustering
Ensemble Learning
Bagging
Boosting
Random Forest
Deep Learning
Deep belief network
Deep Boltzman machines
Convolutional neural network
Recurrent neural network
Tools
Probabilistic Graphical Models
Bayesan Network
Markov Random Fields
Factor graph
Dimentionality Reduction
Principal Component Analysis (PCA)
Factor Analysis
Canonical Correlation analysis (CCA)
Independent Componenet Analysis (ICA)
linear discriminant analysis (LDA)
non-negative matrix factorization (NMF)
Anomaly Detection
k-NN
Local outlier factor
Optimization
Convex Optimization
Unsupervised Methods
Clustering
Partial Clustering
Kmedoid
Kmeans
DBSCAN
EM
Mean-Shift
Hierarchical Clustering
Optics
BIRCH
Association Rule Learning
Apriori
FP-growth
Supervised Methods
Density Estimation
Classification
Generative
Bayes Classifier
Naive Bayes
Perceptron
Hidden Markov Model (HMM)
Discriminative
Decision tree
multinomial logistic regression
logistic regression
SVM
regular SVM
latent SVM
CRF
Neural Network
Regression
linear Regression
Gaussian process regression
Multi-task learning
Full related
Joint Feature learning
Mean-Regularized
Shared parameter
Low rank regularized
Alternating structural optimization
Clustered
Graph based
Tree based
Reinforcement Learning
SARSA
Temporal difference learning
Q-learning
Learning Automata
Monte Carlo Method