

Machine Learning

Importance

- Introduction
 - a. Steps in developing a ML application(MUST DO)
 - b. Types of learning(MUST DO)
 - c. Application and issues in ML
 - d. How to choose the right algorithm
- Regression
 - a. Linear regression (theory + sum)(MUST DO)
 - b. Logistic regression Short notes
- Classification with trees
 - a. Decision tree (theory + sum)(MUST DO)
- Dimensionality Reduction(MUST DO)
 - a. PCA
 - b. ICA
- Support Vector machine
 - a. key terminologies(MUST DO)
 - b. maximum margin concept and how to compute margin(MUST DO)
 - c. kernel and types of kernel
 - d. soft SVM
- Classification(MUST DO & EASY)
 - a. Bayesion belief network
 - b. Hidden markov model (HMM)
 - c. Back propagation algorithm
- Clustering
 - a. K-mean clustering(MUST DO & EASY)
 - b. Hierarctical agglomerative clustering(MUST DO & EASY)
 - c. Radial basis function Short notes
- Reinforcement Learning
 - a. Elements of reinforcement learning & partially observable states
 - b. Temporal difference learning

Extra

Model based and Q learning

Do share with your friends and help them:)