Preparation for Midterm

Topics that will be covered:

- Intro to ML (Lecture1):
  - Supervised vs Unsupervised Learning
  - ML project steps
- Linear Regression (Lecture2):
  - Hypohesis, gradient descent, cost function
- Logistic Regression (Lecture3):
  - Hypohesis, gradient descent, cost function
- Naive Bayes (Lecture4):
  - Conditional Probability, Bayes Theorem, sklearn
- SVM (Lecture5):
  - Support Vectors, kernels, margins
- kNN (Lecture5):
  - Neighbours, majority voting, pros and cons
- Decision Trees (Lecture6):
  - Intuition, Entropy, Information Gain
- Data Preprocessing, Evaluation, etc. (Lecture6)

Mid1 will contain types of questions:

- Theory ~ 30%
  - Theoretical questions, definitions
- Problem Solving ~40%
  - Solving problems using theoretical knowledge
- Implemantation ~30%
  - Fill the code, find mistakes, write your own parts of code, pseudocode