CS-344 Guide 6

* Problem Framing:
* Know the following terms:
  + Example:
  + Label:
  + Features:
  + Labelled example:
  + Unlabeled example:
  + Model:
  + Training data:
  + Training:
  + Bias:
* Name the basic approaches to machine learning:
* Know the types of ML problems and which ones have proven to be particularly difficult.
* Introduction to Machine Learning:
  + Norvig’s reasons for studying machine learning:
* Framing
  + Be able to give a general explanation of how a model is trained and used.
  + Compare and contrast regression vs. classification.
* Descending into ML
  + Explain the nature of a linear model.
  + Compare and contrast L2Loss vs. Mean Square Error (MSE)
* Reducing Loss:
  + Know the following terms:
  + Hyper-parameter:
  + Learning rate:
  + Explain the nature of (stochastic) gradient descent.
* Decision tree learning:
  + Know the following terms:
  + Decision tree:
  + Entropy:
  + Information gain:
* Programming tools:
  + Pandas:
  + ^\_^