2PM this Friday

ML 4375 – Intro to Machine Learning – Summer 2018 – Mazidi – Exam 3 Review

General information:

* Test format: 35 questions, mostly multiple (multiple) choice, some T/F
* 5 questions each on these 7 algorithms:
  + decision trees
  + neural networks
  + Bayes learning (Naïve Bayes and Bayes Nets)
  + instance-based learning (kNN)
  + hidden Markov models
  + clustering (k-means and hierarchical)
  + reinforcement learning

For each algorithm, know:

* is used for classification, regression, both , neither
* is a parametric algorithm or not
* tendencies towards bias, variance or overfitting, underfitting
* how it divides the space: flexible or linear boundaries
* conceptually, how the algorithm works
* conceptually, how metrics work, ex: entropy, IG
* advantages, disadvantages (easy to interpret, data needs scaling, etc.)