Midterm Description

MSBD 5001, Fall 2018

Exam Description

- Oct. 10th , in-class exam

- Close-book, close notes

- Please bring your student ID, pens and calculators
  - Calculators with programming functions are not allowed

- Start at 8 pm, ends at 10 pm
  - You can submit and leave at any time, except for the last 15 minutes of exam

Exam Description Cont'd

- Exam covers lecture contents in Week 1~5
  - We will upload a checklist of page no. of slides that are not covered in exam
  - Tutorial contents are not covered
- Questions will be essay questions: Brief explain and calculation.

Week 1~5 in 1 page

- Review: linear algebra, gradient descent, statistics
- Supervised learning: linear & logistic regression, KNN, decision trees.
- Bias-variance tradeoff, model selection, ensemble learning
- Unsupervised learning: Clustering, PCA, PageRank
- Neural Networks

Essay Questions

- May be in one of following format
  - Calculation: Difficulty similar to in-class exercises. Complete process is required by default
  - Answering a non-calculation questions: Answer a question in a few (typically 2~3) sentences.
- New concepts may appear, but we will show complete definition in the exam.
- No cheat sheets.