



Machine Learning: Yoshinari Fujinuma University of Colorado Boulder

Topics for Quiz 2

Topics covered from Feb. 12th (Lecture 11) through Mar. 19th (Lecture 20 + hands-on)

- Evaluation and validation
- Multi-class classification
- SVM
 - NOTE: We are not asking questions related to the math on the relationship between primal and dual problem (i.e., Slides 6 through Slides 20 in Lecture 19)
- Neural Networks

Practice Quiz

https://canvas.colorado.edu/courses/71729/quizzes/177907

Evaluation and Validation

- Accuracy, precision, recall, F1-score
- ROC-curve, ROC-AUC
- Cross validation

Multi-class Classification

- One against all
- All pairs
- Multinomial logistic regression

Neural Networks

- Back propagation
- Activation functions
- Vanishing gradients

Neural Networks

- Hard-margin SVM
- Soft-margin SVM
- Kernels
- Out of scope for Quiz 2: the primal and the dual problem of SVM