

Tuesday Jan 21, 2024

In-class Handout

COSC 410A Applied Machine Learning

Prof. Forrest Davis

Name:

Discuss and complete the following questions with the person nearest you. You **may** be asked to share your thoughts with the class.

1. Consider the following problem descriptions. What type of machine learning approach would you recommend (e.g., what type of generalization behavior do you want, what type of learning, what type of model)?
 - a. You have Amazon Reviews with star ratings and want to predict the ratings on new reviews.
 - b. You are writing a program to generate a course schedule that fulfills all distribution areas given a machine-readable version of the requirements.
 - c. You administer a campus WiFi network and want to identify Internet traffic that deviates from typical student use and may indicate a cyberattack.
 - d. You are developing a stock trading algorithm that learns by making trades, seeing whether total portfolio value increases or decreases, and then adjusts its strategy.
 - e. You are curator at a museum and want to group art into themes for potential exhibits.
 - f. You want to train a robot to walk in various terrains.