

CS 445/545

Quiz on Tuesday, January 12

Time allotted: 30 minutes.

Format: You are allowed to bring in one (double-sided) page of notes to use during the quiz. You may bring/use a calculator, but you don't really need one.

What you need to know:

- Perceptrons: input, output, weights, bias, threshold
- Given an input vector \mathbf{x} and perceptron weights, how to calculate output
- Given perceptron weights, how to sketch separation line (in two dimensions)
- Perceptron learning algorithm
- Difference between “true” and “stochastic” gradient descent
- How to interpret / fill in a confusion matrix
- How “all-pairs” classification method works

Questions will be similar to examples and exercises we've done in class.