

# CSCI 5090/7090 Machine Learning, Spring 2018: Homework 3

Due: Saturday, March 31<sup>th</sup>, 9:00 PM

## 1 Logistic Regression using Stochastic Gradient Descent [100 points]

In this assignment you will be predicting income from census data using logistic regression. Specifically, you will predict the probability that a person earns more than \$50k per year.

**For this question, you may write your code and solution in teams of at most 2.** If you decide to do this, you should submit one copy of your solutions (both code and answers to questions) per team. This copy should be clearly marked with the names of both team members.

All the details, including the dataset and programming portion of this homework can be found at:  
<https://github.com/sci2lab/Logistic-SGD>.