

## **Assignment 2**

### **Linear and Polynomial Regression and Classification, and Regularization**

For assignment 2, you are provided with skeleton code for 6 experiments. You will implement code (indicated by TODO statements) within this skeleton framework, and answer the questions (indicated by TODO statements in the code) in a separate document.

- You should submit your code and document via Scholar. All code should be well designed and well documented (i.e. write methods/functions for distinct routines).
- Submit code and data as a .zip file that I can run code with a single click
- Please organize the report in sections. One section per experiment. Questions can be answered sequentially. Please number the questions. No narrative is needed between the answers

This is a long project, but the tasks build on each other. I would recommend getting code to work experiment by experiment. It gets complex once all components are added, but if you build the code sequentially it will be much easier.

You need both “assignment\_2.py” which contains the skeleton code and “data\_generator.py” which generates data for the experiments.

Please ask me if you have questions.