Assignment (Due May 12th Fri 10AM)

Apply regression *(or classification)* analysis to a data set of your choice.

1. Collect or identify a data set.
   - ▶ UCI Machine Learning Repository (http://archive.ics.uci.edu/ml/index.php). *# Using approaches discussed in Week 1~3*
2. *Implement from Scratch!* Implement and apply (multivariate) regression *or classification*.
   - ▶ Hold out a small subset of the data to evaluate accuracy of predictions.
   - ▶ Try various methods (e.g., basis functions).
3. Write a report that clearly discusses the following (preferably as a Jupyter notebook).
   - ▶ Explanation of the data you used. Clearly state the objective (e.g., predict B from A).
   - ▶ Explanation of regression analyses you implemented and applied with math.
   - ▶ Evaluation results including quantitative analysis with adequate visualization (i.e., graphs).
4. Submit, via PandA, the data, code, and report. If your data is large, please include a link to it in your report instead of uploading it.