

## **MCEN 4228/5228-004    Machine Learning in Mechanical Engineering**

Homework 1, Due Oct 18, Friday 11:59PM

### Supervised Learning Homework Assignment

Use a dataset containing at least 3 input features to apply supervised learning algorithms we have learnt so far (linear regression, logistic regression, GDA, Naïve Bayes, or generalized linear models)

Tasks and Submission requirements:

- 1) Submit your i) dataset, ii) code (in any programming language), and iii) a report presenting your work and findings.
- 2) Do not use manually generated datasets, real-world large data set is encouraged.
- 3) Bonus points will be given to applications comparing the performance of different algorithms across various aspects (e.g., accuracy, effectiveness, computing cost, etc.)