EE6337: Deep Learning, Spring 2019

Indian Institute of Technology Hyderabad HW 2, Assigned: Monday 04.03.2019. **Due: Sunday 10.03.2019 at 11:59 pm.**

- 1. In continuation from the previous programming assignment on training the weights of a multilayer perceptron, implement each of the following gradient descent methods discussed in class. **Do not use built in functions**.
 - (a) Stochastic gradient descent. (10)
 - (b) Momentum. (10)
 - (c) Nesterov Momentum. (5)
 - (d) AdaGrad. (10)
 - (e) RMSProp. (10)
 - (f) Adam. (10)

Clearly illustrate how the optimization proceeds in each case and summarize your observations. Use a dataset of your choice from the UCI data repository: click here.