Artificial Intelligence

Assignment No 1

(Deadline: 7th Nov 2023, 11:59PM)

Problem: Detecting Responses

You have to design a predictor that will be trained on messages received in a chat. Collect messages data from your own whatsapp/SMS/snapchat etc (make sure that data should not contain private contents which you don't want to disclose). There should be more than 100 training examples in the data set. Use linear predictor to predict whether second message is response of the first message?

Deliverables:

1. Develop your own linear predictor and run it for different no. of iterations and plot learning curve (iterations vs loss).
2. Use different step size and compare different learning curves in a single plot.
3. Use built in linear predictor function from python and do the same.
4. Compare your developed best predictors learning curve with build in linear predictor function curve.
5. Write down a short report on analysis of results and your findings (make code, learning curves part of your report)