SLIIT
Discover Your Future

BSc (Hons) in Information Technology
Year 4

Lab 6 – Sentiment Analysis

SE4050 – Deep Learning — Semester 2, 2022

Deadline – (18-10-2022)

In this week's Lab assignment, you will be working on a real-world Natural Language Processing scenario. Specifically, your task will be to build, train and test a Recurrent Neural Network based model to analyze movie revies and predict the sentiment of the reviewer.

- First, accept the assignment from GitHub classroom using the below link. It contains a copy of the dataset as a text file.
  - https://classroom.github.com/a/VYY4z-d2
  - It contains sentences labelled with positive and negative sentiment extracted from reviews of movies.
  - There are 1000 reviews, each provided on a single line in the format of sentence score. The score is either 1 (for positive) or 0 (for negative).
  - A sample review and score from this dataset is provided here below.

I would give this television series a 10 plus if i could. 1

- **Use a Jupyter notebook to compile your solution. (Make sure the name of the notebook is your IT number. Eg ITxxxxxxxx.ipynb)**
- You can split the dataset into training, testing and validation sets and use the test set accuracy as the metric to evaluate the performance of the model.
- You can also try some optimizations afterwards to improve the accuracy of the Model.
  - Please make a note of the accuracies and the changes done within the Jupiter notebook itself.

Submission

- **Update the GitHub repository before the deadline. And submit only the ipynb to the courseweb submission link.**