Assignment 3

Advanced Machine Learning (CS566)

Department of CSE, IIT Patna

(Read all the instructions carefully and adhere to them.)

Date: 10-Apr-2020 **Deadline**:- 17-Apr-2020

Instructions:

- 1. Markings will be based on the correctness and soundness of the outputs.
- 2. Marks will be deducted in case of plagiarism.
- 3. Proper indentation and appropriate comments (if necessary) are mandatory.
- 4. You should zip all the required files and name the zip file as:

roll_no_of_all_group_members.zip, eg. 1501cs11_1201cs03_1621cs05.zip.

5. Upload your assignment (the zip file) in the following link:

https://www.dropbox.com/request/Cj2tH9xcCXRbA9cf9eZg

For any queries regarding this assignment contact:

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Problem Statement: Given a message (tweet) and classify the sentiment of the message as a positive, a negative, or a neutral.

Dataset: Download the dataset for Sentiment Classification from here https://drive.google.com/drive/folders/1V_5_uppSaF-wuPnafD7vpqw9rWF1pJP0? <a href="https://drive.google.c

Methods: Classify and compare the results based on the following methods

- 1. Feed Forward NN
- 2. Vanilla RNN
- 3. LSTM
- 4. GRU

Evaluation Metrics: Classify the dataset for Sentiment Classification and evaluate the following metrics:

- 1. Accuracy
- 2. F-score
- 3. Precision and recall
- 4. Confusion matrix