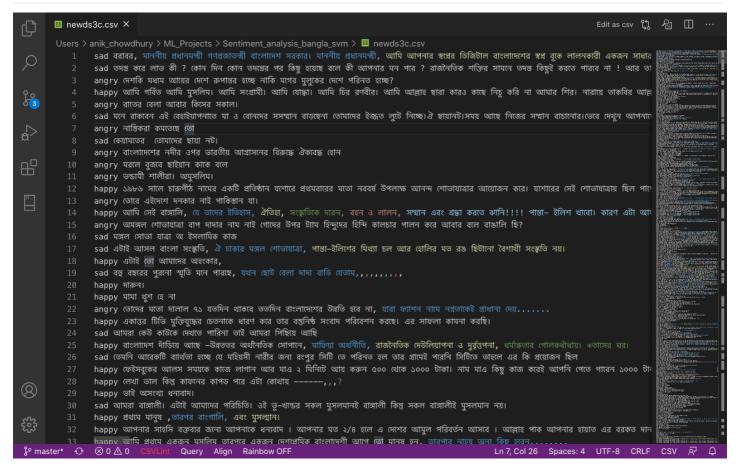
## Name:

Sentiment Analysis of Bengali languages using LSTM.

Author: Anik Chowdhury

## Data Gather/Wrangling



In this project, i scraped the comments and posts available on social sites like Facebook and some famous bengali blog like somewherein blog, priyo.com etc. I modified the raw data using NumPy and Pandas. The dataset contains label(sentiment) and text. I have used three class for sentiment analysis: Angry, Sad and Happy. From this dataset I have trained a model that can detect the sentiment of text if it is angry, sad or happy.

I have used deep learning algorithm LSTM for sentiment analysis.

I have attached images of code and output of Confusion matrix and plot of both training and test result, so that the performance of the model could be understood properly.

Accuracy is 82.3%

## USED LIBRARIES AND IMPLEMENTED KNOWLEDGE:

- 1 Pandas
- Matplotlib
  NLTK

implemented Knowledge from course work 1. Data wranggling and preprocessing 2. Reducing overfitting, underfitting 4. Deep learning Algorithm 5. Model Evaluation, Confusion Matrixes 6. Plotting predicted result

All the images of codes and their outputs are attached. Images(codes, outputs) folder contains all the images of code and output of this project.