**Natural Language Processing Unit 5 Evaluation**

Date: 22nd November 2014

Time: 1.30 PM – 5.30 PM

You are provided with an implementation of the MaxEnt classifier. There are two associated classes for the classifier – MyMaxEnt.py and feature\_functions.py. The tasks to perform are the following:

1. feature\_functions.py class is an example of feature functions. You are required to use this example and build feature functions for each of the eleven tags defined in the all\_data.json file provided in Evaluation 4.

2. Implement the Viterbi algorithm to determine the correct tag sequence for the sentences in the training set.

3. Calculate the accuracy of the system.

For every training sentence, determine the number of words tagged correctly by comparing it with the manually tagged corpus. For example, if a sentence has 8 words and 6 words have been tagged correctly, when compared with the tagged corpus, then the accuracy of the NER for that sentence would be 6/8.

Perform the same task for every training sentence and report the total accuracy of the system.

Note: Divide the corpus into training data and test data.

Deliverables:

1. Source Code

2. Readme file describing your work.

Submit the deliverables to course.nlp.2014@gmail.com