# CS571-Name Entity Recognition

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## 1 Introduction

The task is to develop a deep learning model that takes each sentence and do name entity recognition for each token. The model is bi-lstm model.

### 2 CNN Structure

#### 2.1 Input

Padding the sentence to maximum sentence length: 113 Embedding dimension: 50 The input size is (batchsize, 113, 50)

#### 2.2 BiLSTM

Used Keras BiLSTM module Bidirectional(LSTM(...))

### 2.3 Output

The final layer is a TimeDistributed dense layer with parameter 17. The activation function for this layer is softmax.

# 3 Result

After running 15 epochs, the final model achieved an F1 SCORE of 90.15% on the training dataset and 88.26% on the developing dataset.