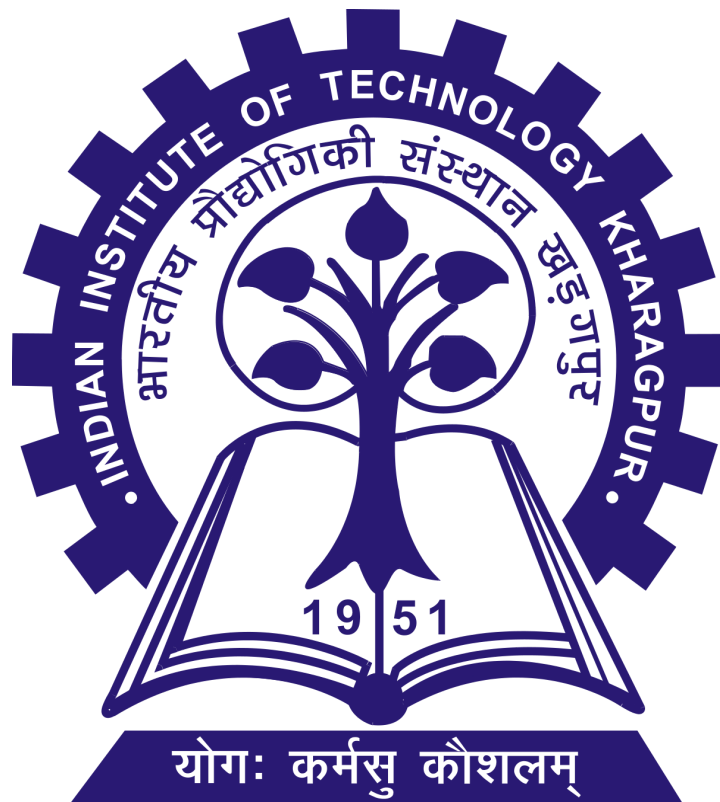


# CS60010 - Deep Learning

## Assignment - 2

(Named Entity Recognition)



20CS30063 - Aman Sharma

Dataset: <https://multiconer.github.io/dataset>

Language Domain: English, Hindi, Bengali

Link to model files:

[https://drive.google.com/drive/folders/1mXvwkmFfw95wFHZWpUwV71W8Tg1LoeaF?usp=share\\_link](https://drive.google.com/drive/folders/1mXvwkmFfw95wFHZWpUwV71W8Tg1LoeaF?usp=share_link)

## **Model Description**

The model architecture consists of an embedding layer, a bidirectional LSTM layer, and a linear layer for output prediction. The model is trained using the cross-entropy loss function. We are using Adam optimizer to update the weights.

## **Hyperparameters Used**

EMBEDDING\_DIM = 512  
HIDDEN\_DIM = 512  
NUM\_EPOCHS = 10  
BATCH\_SIZE = 64  
NUM\_LAYERS = 1

## **Performance**

We are using weighted average scores for comparison

### **Precision**

English-Fine:	0.91
English-Coarse:	0.93
Hindi-Fine:	0.95
Hindi-Coarse:	0.95
Bangla-Fine:	0.95
Bangla-Coarse:	0.96

### **Recall**

English-Fine:	0.91
English-Coarse:	0.94
Hindi-Fine:	0.96

Hindi-Coarse:	0.96
Bangla-Fine:	0.94
Bangla-Coarse:	0.96

### **F-Score**

English-Fine:	0.91
English-Coarse:	0.93
Hindi-Fine:	0.95
Hindi-Coarse:	0.95
Bangla-Fine:	0.94
Bangla-Coarse:	0.96