



## **Natural Language Processing Lab**

### **Exercise 5:**

**Application:** Hate Speech Identification

**Dataset:** Download the dataset from [Annotated Corpus for Named Entity Recognition \(kaggle.com\)](https://www.kaggle.com/datasets/ashwathkumar123/annotated-corpus-for-named-entity-recognition)

### **Task:**

- Develop a model for Named Entity Recognition using Hidden Markov Model.
- Remove the labels from the Corpus and use Baum Welch algorithm to estimate the learning parameters.