**Next Word Prediction Using LSTM**

**Abstract:**

Next word prediction is one of the application of Natural Language Processing (NLP) and also known as language that can help in predicting the next word. Previously there are lots of research was done on this area by using various models including recurrent neural networks and federated text models. In the suggested model, machine learning and TensorFlow techniques will be used to predict the five words. The text is understood by the machine learning algorithms, which then anticipate the next word to be used to finish the phrase. The proposed model helps the user to predict the next word. The model will be implemented using natural processing language algorithms and comparing the algorithms like LSTM, and RNN by using text data set to train the model.