**Topic Submission Form**

This form should be submitted by the mentioned deadline.

Name:              Sanket Talaviya

Student Number:                 PN969198

Course:                   Master of Science in Machine Learning and AI\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

**Fill your topic/s below**

**Project Title/Area 1:**

A Comparative study for Movie Reviews Sentiment Analysis

**Dataset:**

https://www.kaggle.com/lakshmi25npathi/imdb-dataset-of-50k-movie-reviews

**Description:**

On this topic – I am proposing to apply state of the art Transformer models like BERT and   RoBERTa and XLNet on IMDB movie review dataset and compare their performance. And derive conclusion why state of art models works better/not better on this dataset.

Current Challenges in this Field**:** Keywords that hold many different meanings according to their context can lead to ambiguity, and incapability of classifying sentences which does not include clear emotional keywords may imply that sentence contains no emotions

**Project Title/Area 2**

A Comparative study for Restaurant Reviews Sentiment Analysis

**Dataset**: https://www.kaggle.com/omkarsabnis/yelp-reviews-dataset

**Description**:

On this topic – I am proposing to apply state of the art Transformer model like BERT and RoBERTa and XLNet on yelp reviews dataset and compare their performance. And derive conclusion why state of art models works better/not better on this dataset.

Current Challenges: **:** Keywords that hold many different meanings according to their context can lead to ambiguity, and incapability of classifying sentences which does not include clear emotional keywords may imply that sentence contains no emotions

**Project Title/Area 3:**

A Comparative study for Sarcasm Detection

**Dataset**: https://www.kaggle.com/welkin10/airline-sentiment

**Description**:

On this topic – I am proposing to apply state of the art Transformer model like BERT and RoBERTa and XLNet on airline sentiment dataset and compare their performance.

Current Challenges: Analysing a piece of text written by a writer to identify and classify the opinions buried in that text and to determine whether the views of the writer about the topic is positive, negative, or neutral

**Fill in this section if a member of staff has agreed to be your supervisor:**

Member of Staff:                                                                                   \_\_\_\_

If you have found a supervisor then you and the member of staff who agreed to supervise your project should sign below.

\_Sanket Talaviya\_                                                                        \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature                                                                         Supervisor Signature

\_\_\_10th March 2021\_\_                                                                            \_\_\_\_\_\_\_\_\_\_\_\_

Date                                                                                               Date