

Team AK

Name and NetID of Team Members

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Free Topic – IMDB Movie Review Sentiment Analysis

IMDB Movie Review Sentiment Analysis project is a Machine Learning (ML) model that will classify a given review as positive or negative based on the words present in it. It will use Natural Language Processing (NLP) for this purpose. It will be trained and performed on the Kaggle IMDB dataset.

The dataset is a CSV file from Kaggle containing IMDB reviews. The packages and modules proposed to be used for this project are Python, NumPy, Pandas. Tensorflow will be used to train the model and it will be based on NLP. The data will be tokenized and converted to small packets called sequences. This data will be padded and then input in the model for training.

The proposed programming language to be used is Python because of its ease of use and the countless access to various libraries useful for developers interested in NLP.

The workload of the topic is atleast 40 hours because of the number and variety of tasks to be completed given the size of the project.

The main time consuming procedure will be training the model and optimizing the code which is going to take the maximum time.