**Text Classification Model**

**ABSTRACT-**

Text classification is a supervised learning task for assigning text document to one or more predefined classes/topics. These topics are determined by a set of training documents. In order to construct a classification model, a machine learning algorithm was used. Training data is often a set of full-text documents. The training model is used to predict a class for new coming document. In this paper, we propose a text classification approach based on automatic text summarization. The proposed approach is tested with 2000 Vietnamese text documents downloaded from vnexpress.net and vietnamnet.vn. The experimental results confirm the feasibility of proposed model.

**PROBLEM STATEMENT-**

Sentiment Analysis of movie reviews

The goal of this project is to build a sentiment analysis model that can accurately classify customer reviews as positive, negative, or neutral. Participants will be provided with a dataset of customer reviews from a range of product categories, such as electronics, clothing, and food. The data includes both the text of the review and the sentiment label. Participants should explore different algorithms and techniques for sentiment analysis, such as logistic regression, support vector machines, and deep learning models. They should also experiment with different preprocessing steps, such as removing stop words and stemming, as well as feature engineering, such as word embeddings and n-grams.

**PROCEDURE-**

**Step1-**Import the dataset using pandas library

**Step2-**Perform Exploratory Data Analysis

**Step3-**Preprocess the data(stemming,punctuation removal,stopwords….)

**Step4**-Perform Vectorization using TFIDF and fit the training data

**Step5-**Model Building

**Step6-**Model Evaluation

**CONCLUSION-**

After Building the model I evaluated the model using sklearn library.The Accuracy of the model is 70.76

**REFERENCES-**

Sentiment Analysis of IMDB Movie Reviews-By Laxmipathi N

Link-

<https://www.kaggle.com/code/lakshmi25npathi/sentiment-analysis-of-imdb-movie-reviews>