Assignment1: 28, April.

1. Do NLP classification for any text doc , using one of ML rule supervised algorithms (SVM, KNN, NB)

I used SVM for the classification as shown in below figure:

Text

Description automatically generated

Text

Description automatically generated

1. Apply POS in classification and explain how POS will change the result.

POS stands for part of speech tagging. It increased the results of classification.

Text, letter

Description automatically generated

1. Does using the morphological analyzer will change the result of classification.

It decreased the results of SVM model.

Text, letter

Description automatically generated

1. Evaluate the classification using F1, Recall and precision.

Table

Description automatically generated

1. What is TF-IDF and are you going to apply to the process of classification?

TF-IDF stands for "Term Frequency-Inverse Document Frequency". It used to calculate the frequency of the word with respect to its appearance in the dataset. I also used the TF-IDF before my classification algorithm.

Text

Description automatically generated