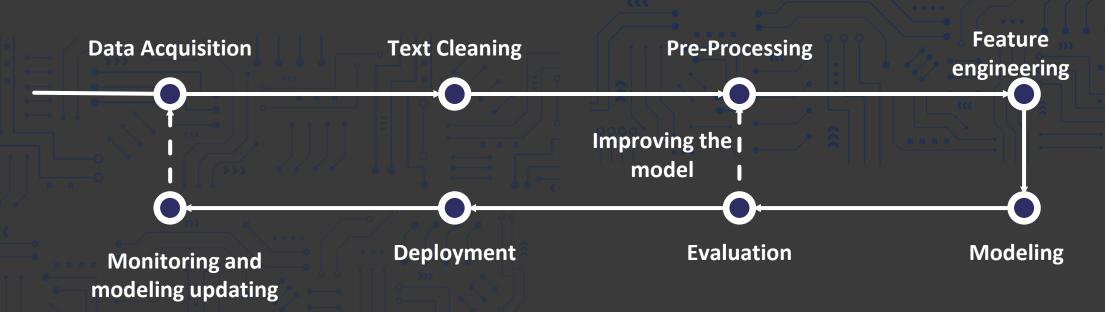


Steps

To achieve My goal, I will start with the NLP Pipeline



Dataset 45,275 Tweet in Arabic language

Dataset

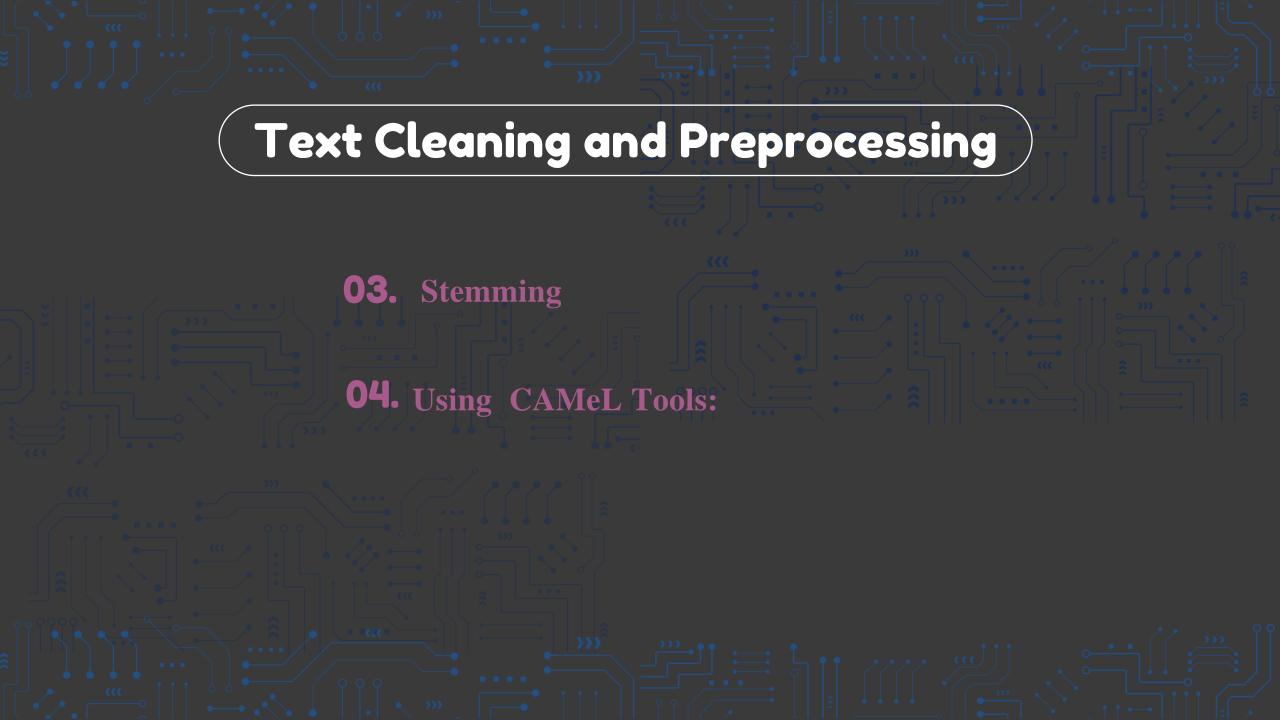
The data initially consists of two columns (Tweet and category)

I needed more features to build well-produced models, so I added many more features which is:

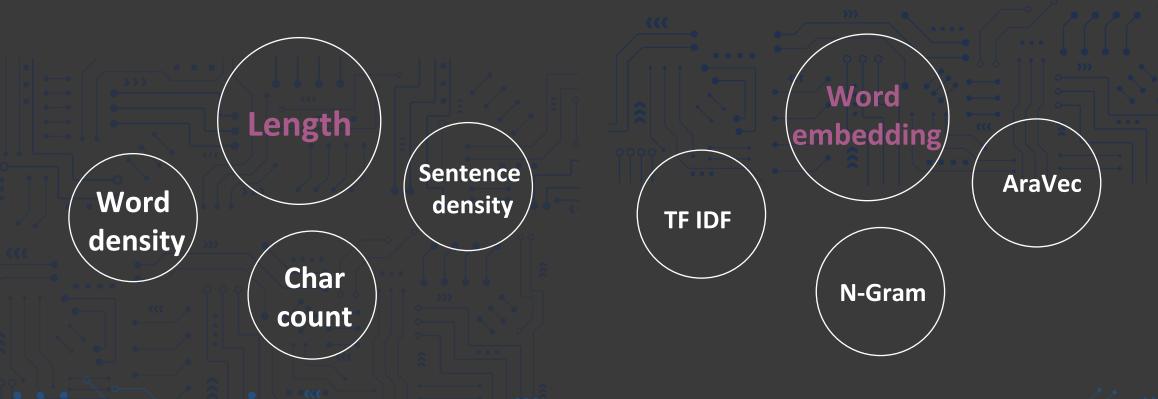
Num of hashtags, word density, Sentence density, char_count,

Word_count, Num of positive words, Num of negative words.

Text Cleaning and Preprocessing **01.** Text Cleaning **02.** Pre-processing

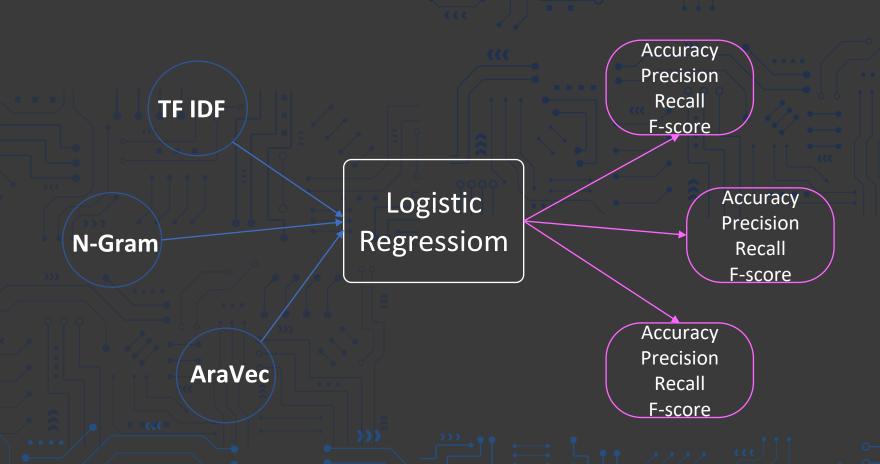


Feature Engineering

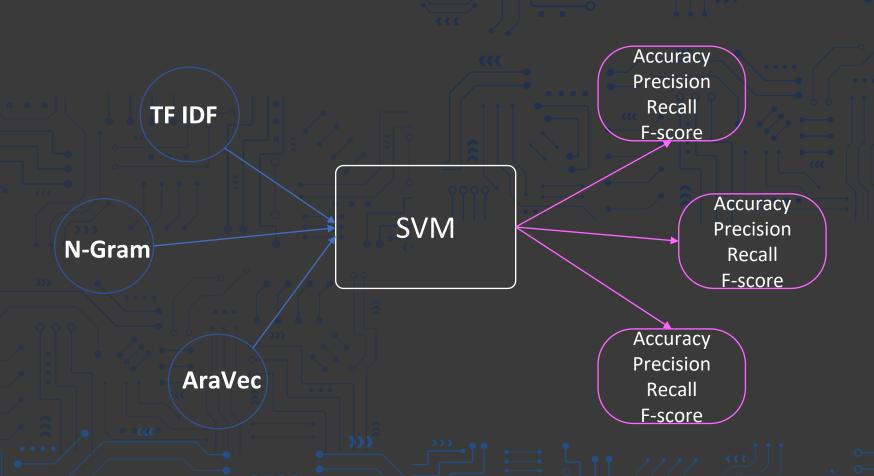




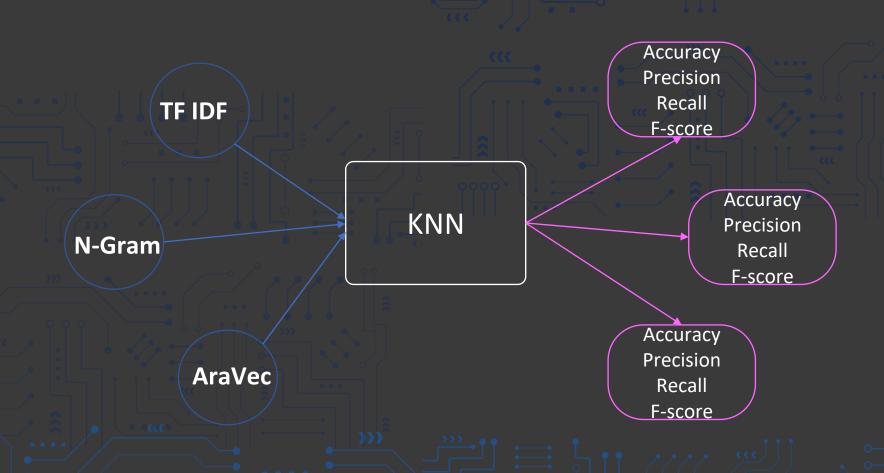
Evaluation Results



Evaluation Results



Evaluation Results





TF IDF

SVM

Accuracy: 75.85%

Precision: 77.91%

Recall: 77.85%

F-score: 77.85%

