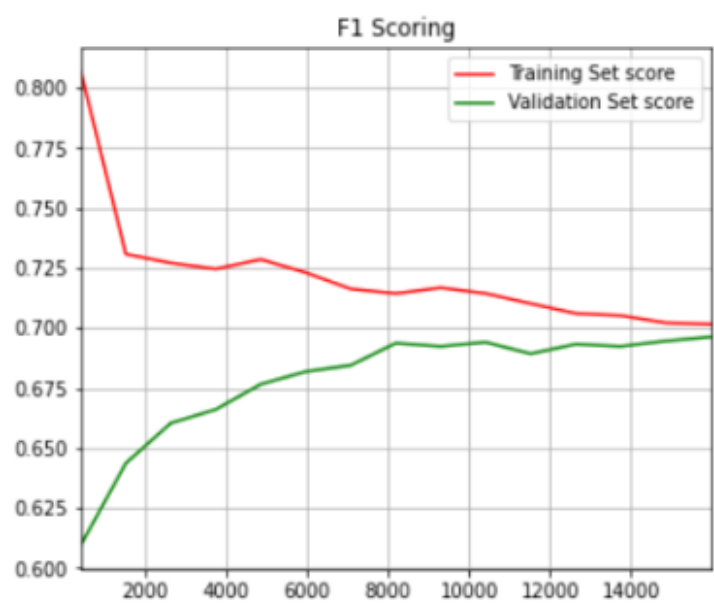
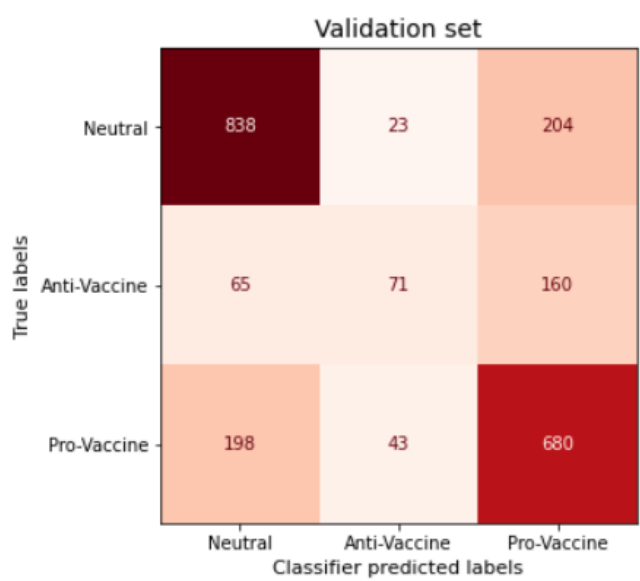
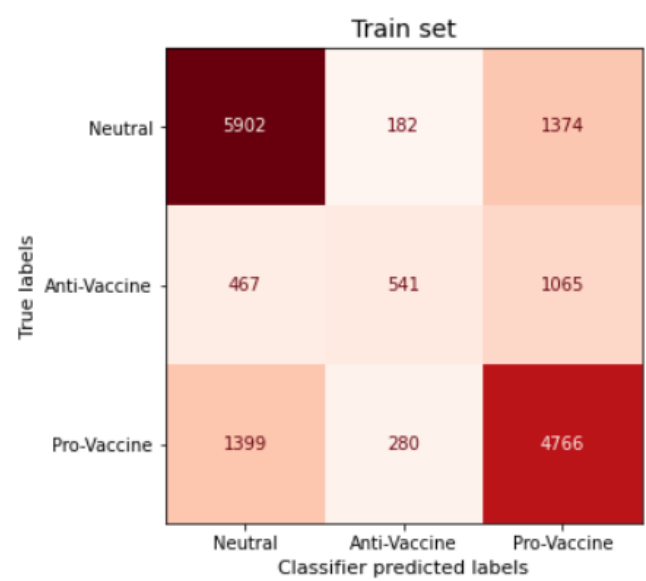


TFIDF Vectorizer

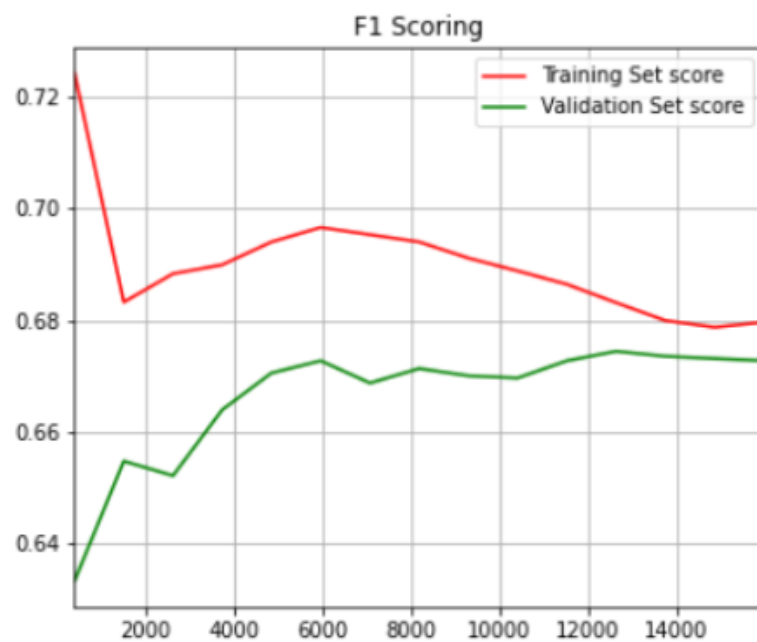
- min_df, max_df, ngram_range



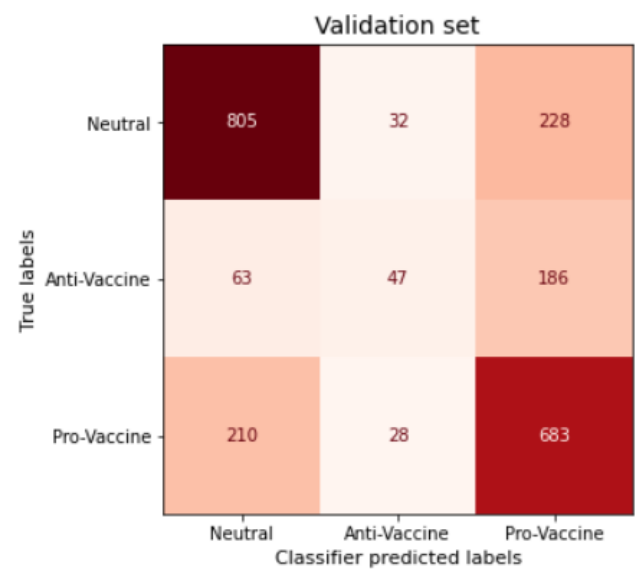
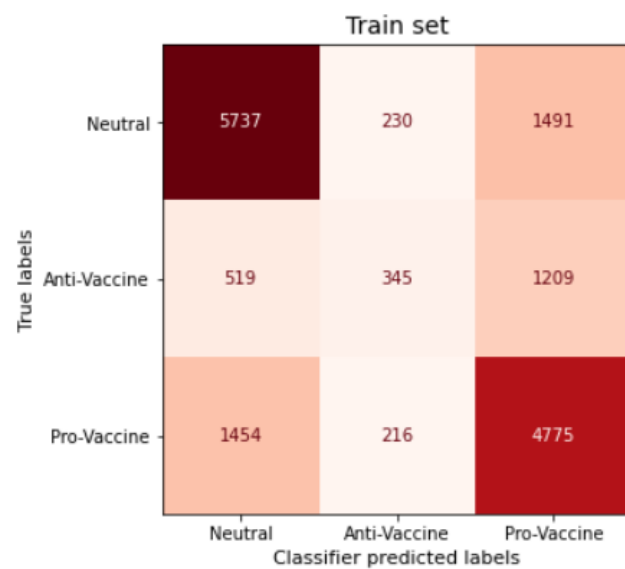
	F1	Precision	Recall
Train	0.7016	0.6536	0.5973
Validation	0.6963	0.6436	0.5883



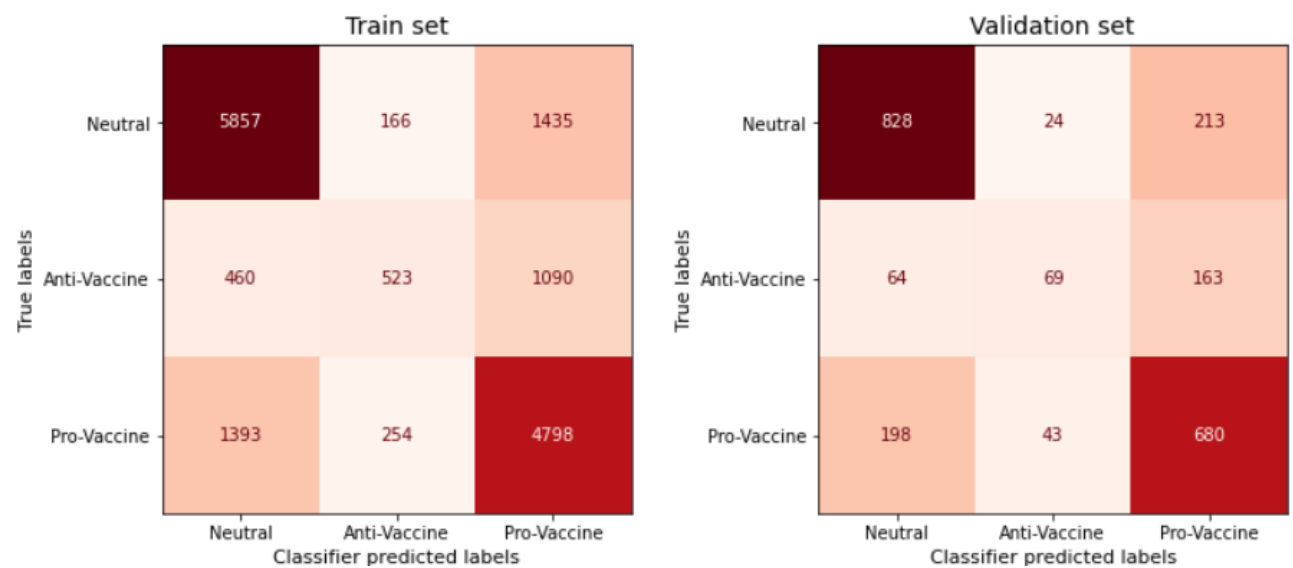
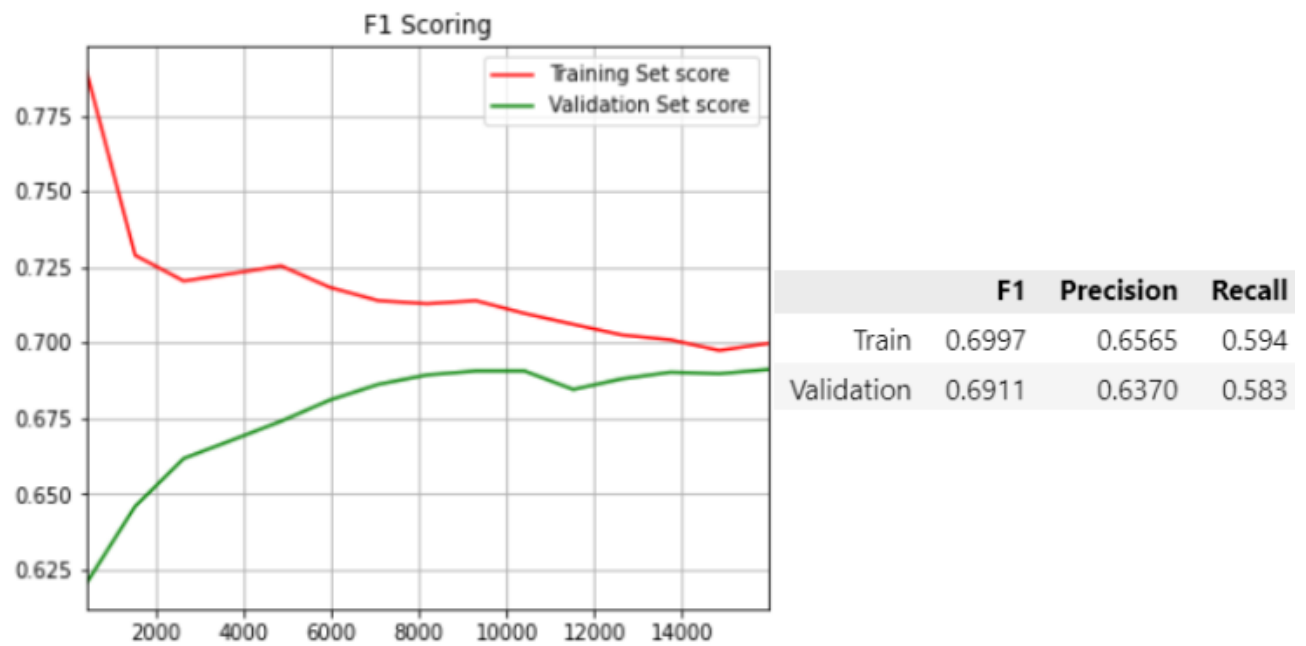
- min_df, max_df, preprocessing, stop words



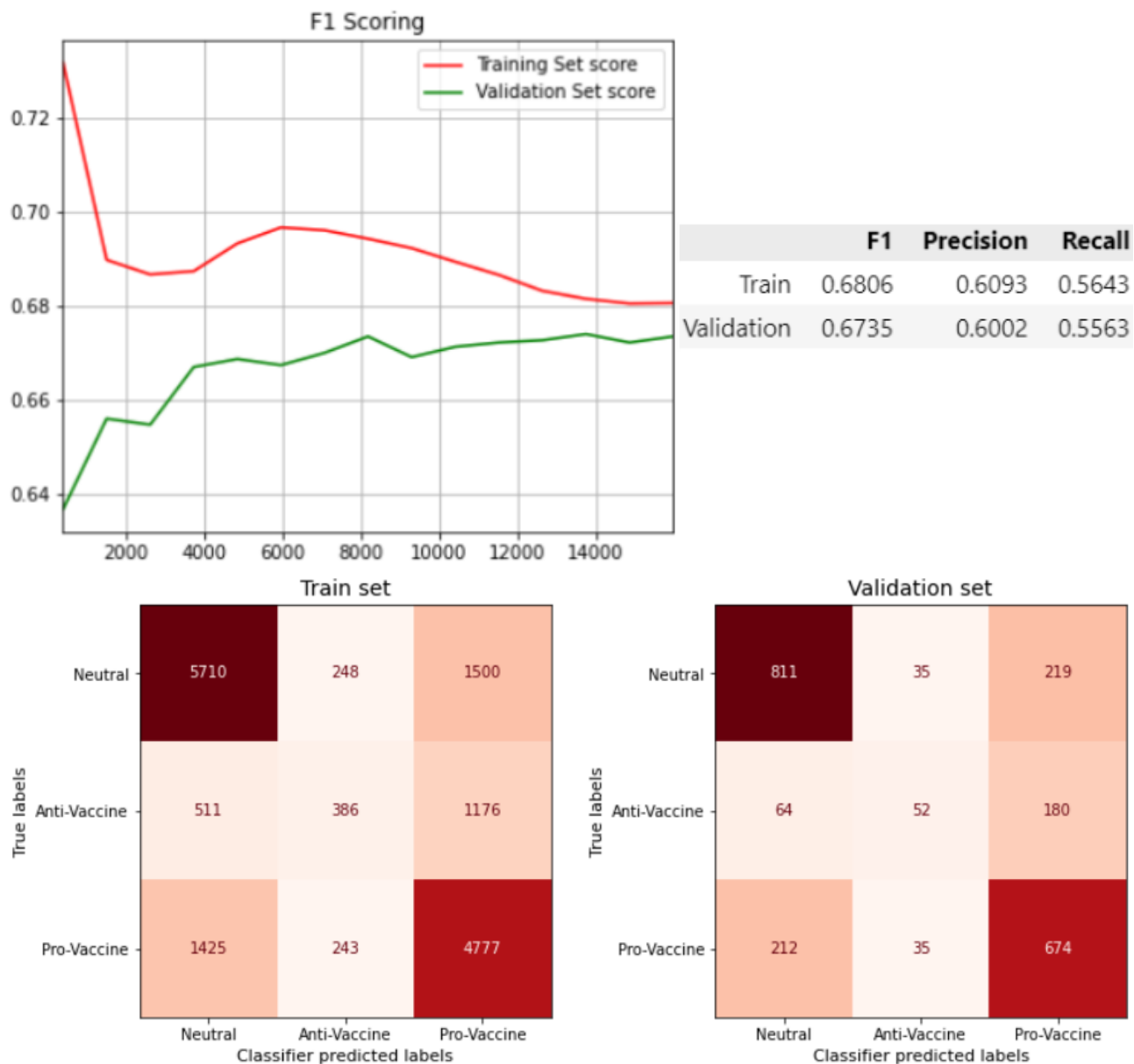
	F1	Precision	Recall
Train	0.6796	0.6064	0.5589
Validation	0.6727	0.6029	0.5521



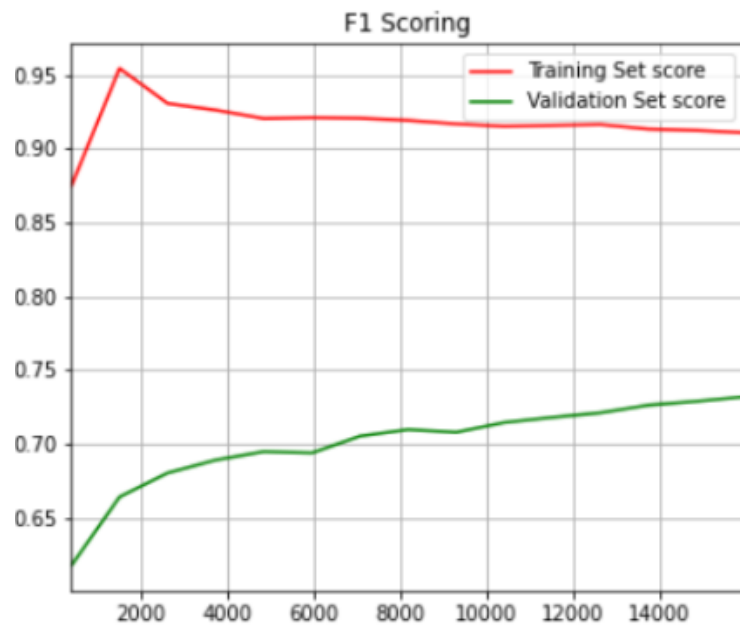
- min_df, max_df



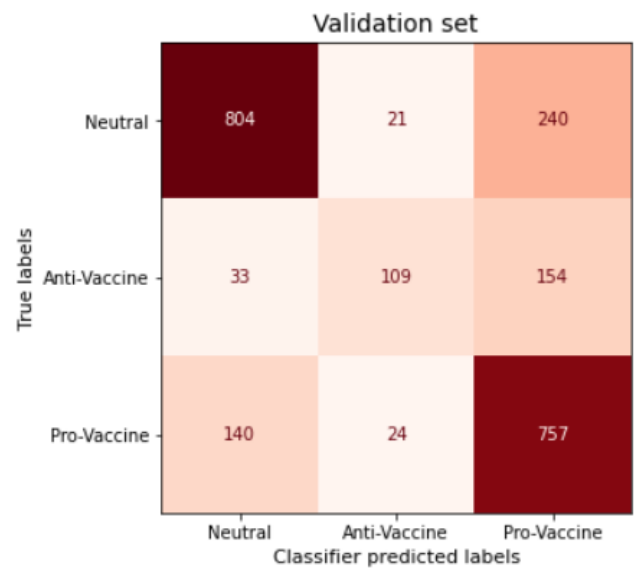
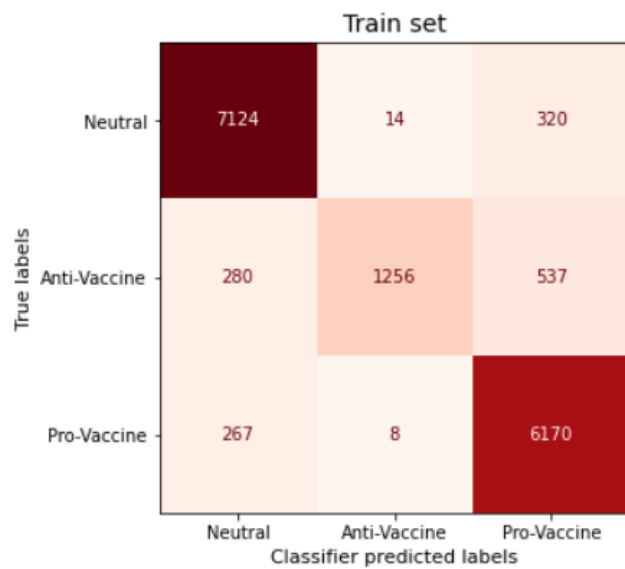
- min_df, max_df, preprocessing, stop words, ngram_range



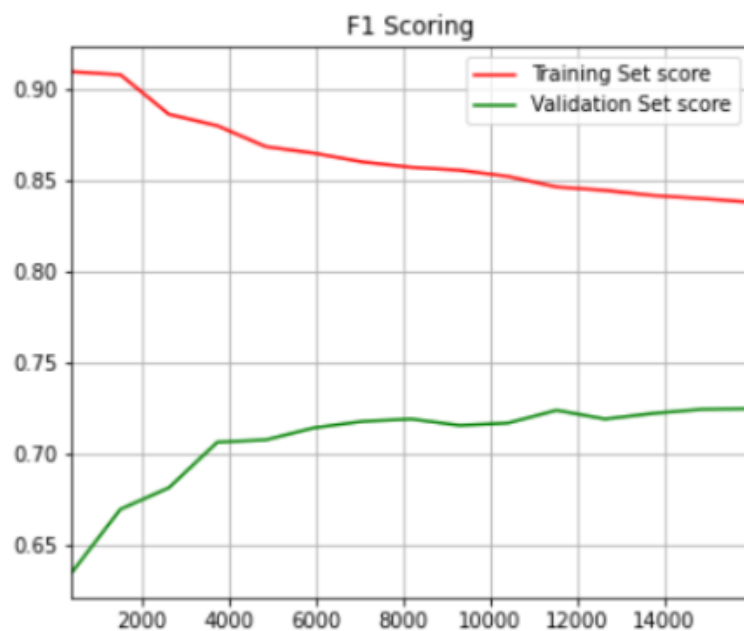
- preprocessing, stop words, `ngram_range`



	F1	Precision	Recall
Train	0.9107	0.9298	0.8395
Validation	0.7318	0.7295	0.6484



- preprocessing, stop words



	F1	Precision	Recall
Train	0.8381	0.8517	0.7589
Validation	0.7248	0.7094	0.6440

