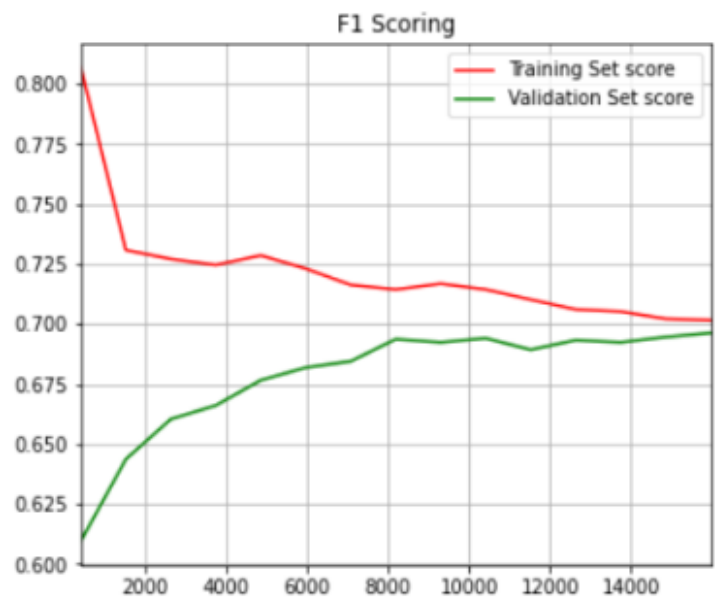
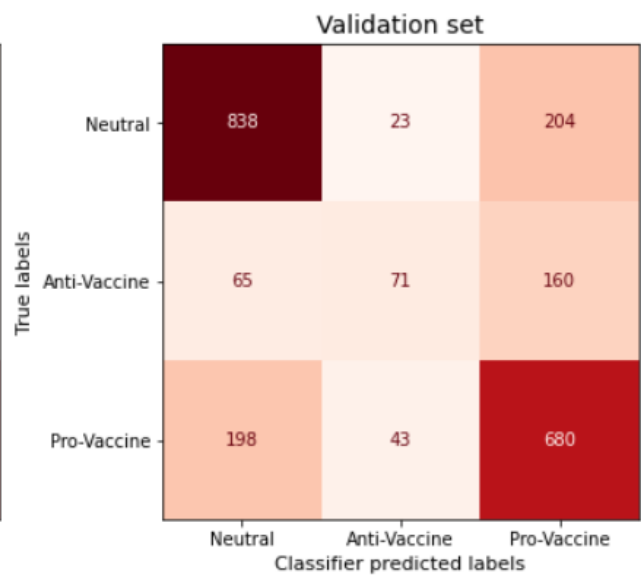
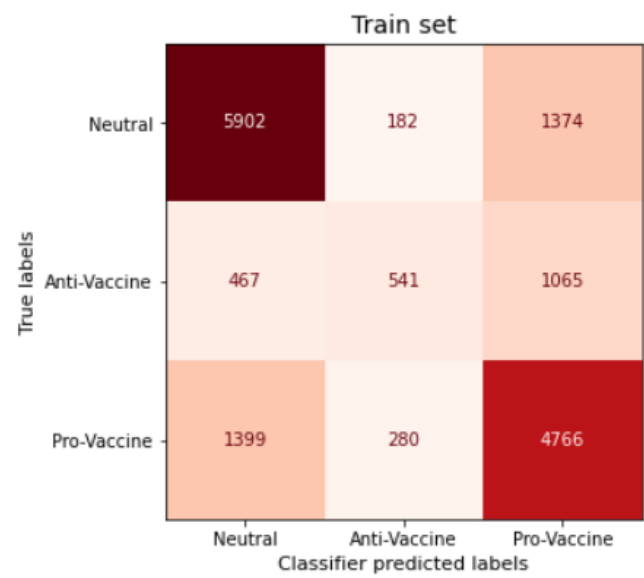


TFIDF Vectorizer

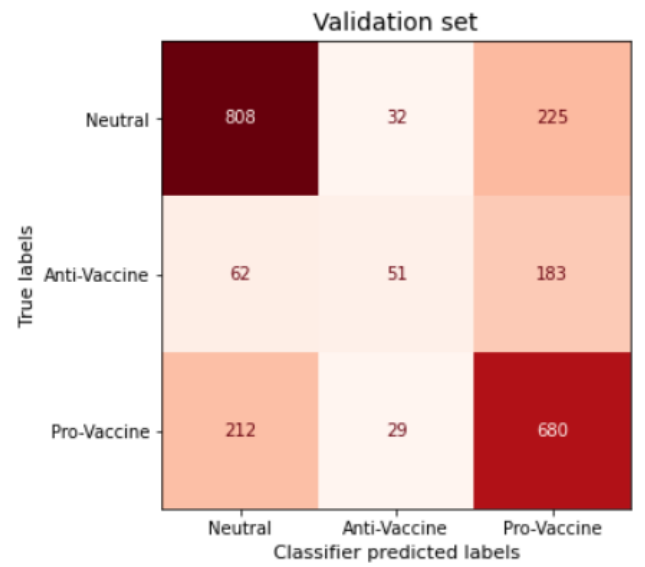
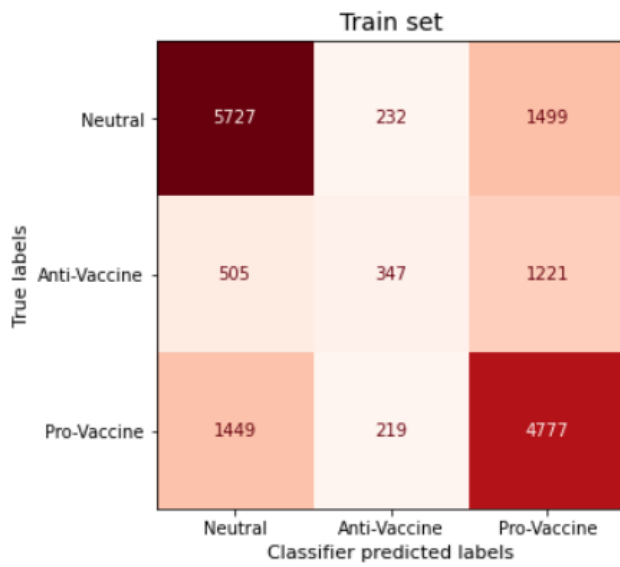
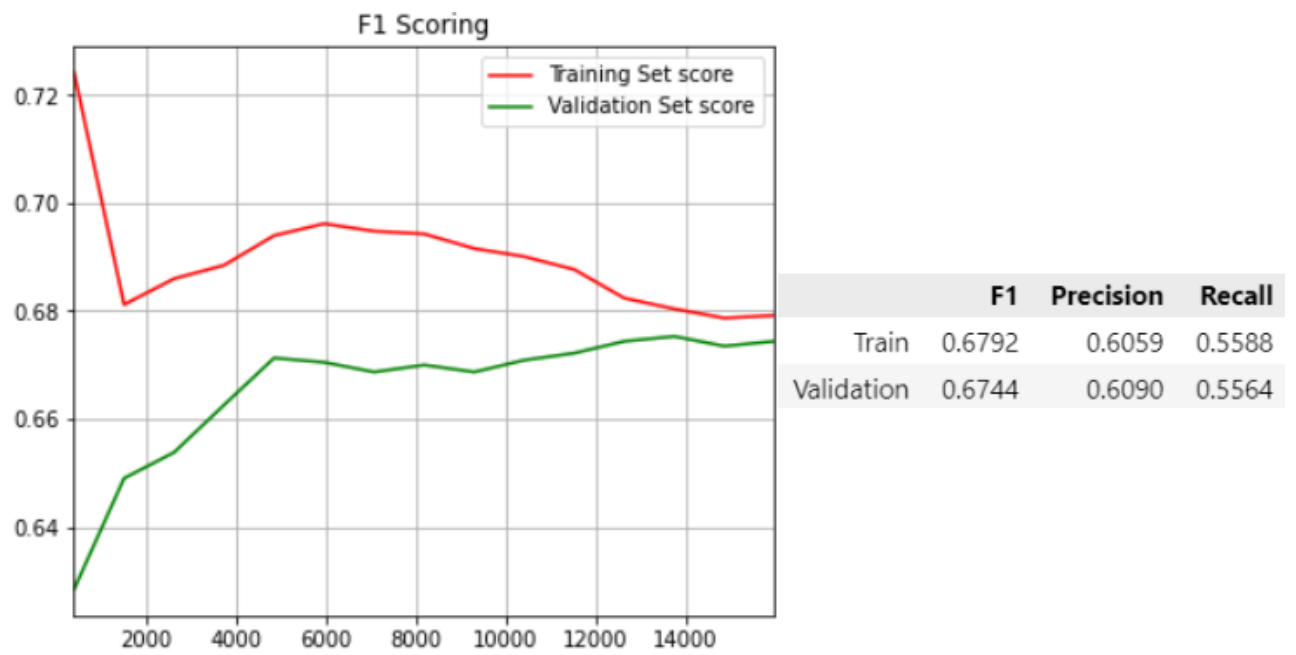
- min_df, max_df, ngram_range



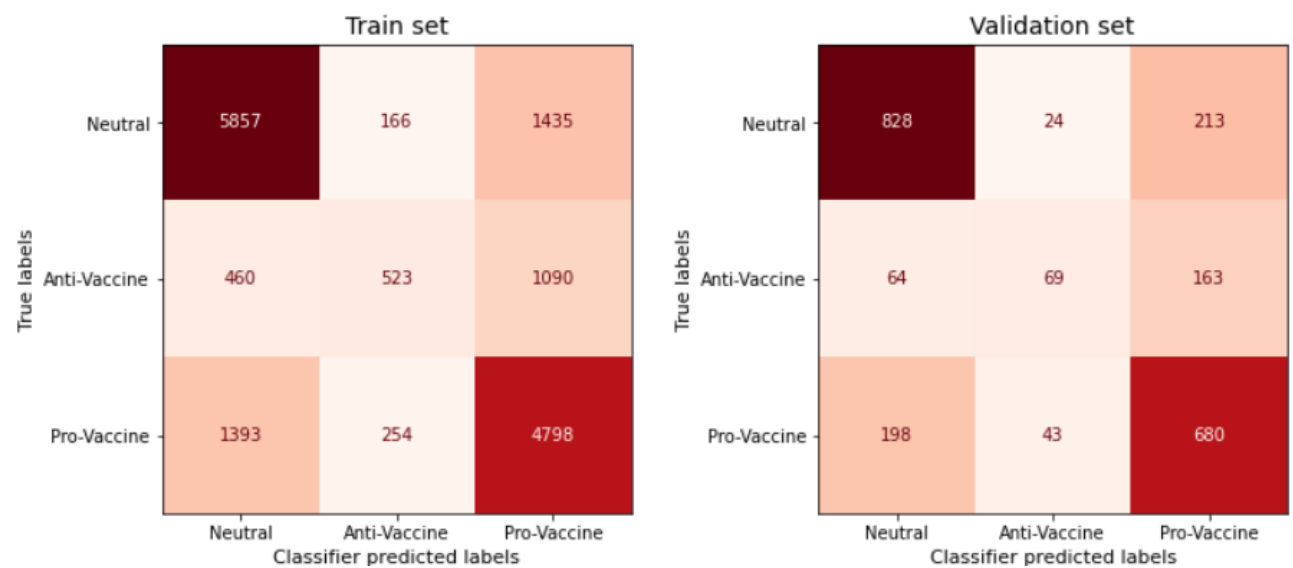
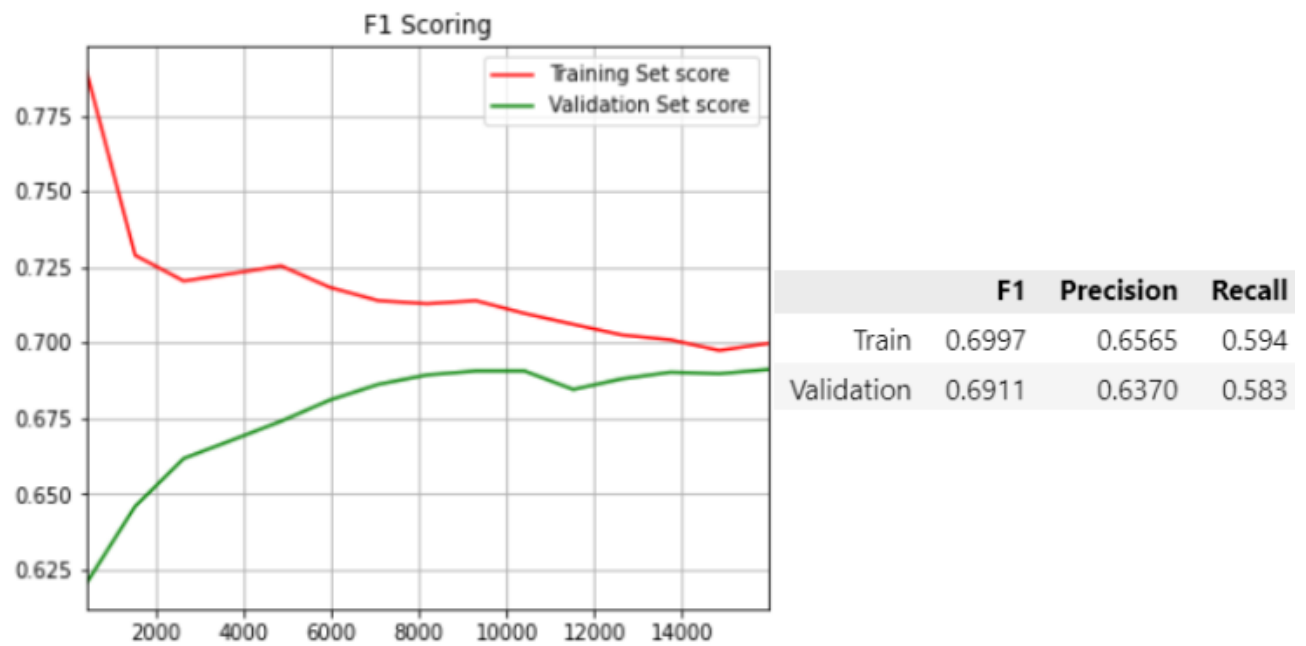
	F1	Precision	Recall
Train	0.7016	0.6536	0.5973
Validation	0.6963	0.6436	0.5883



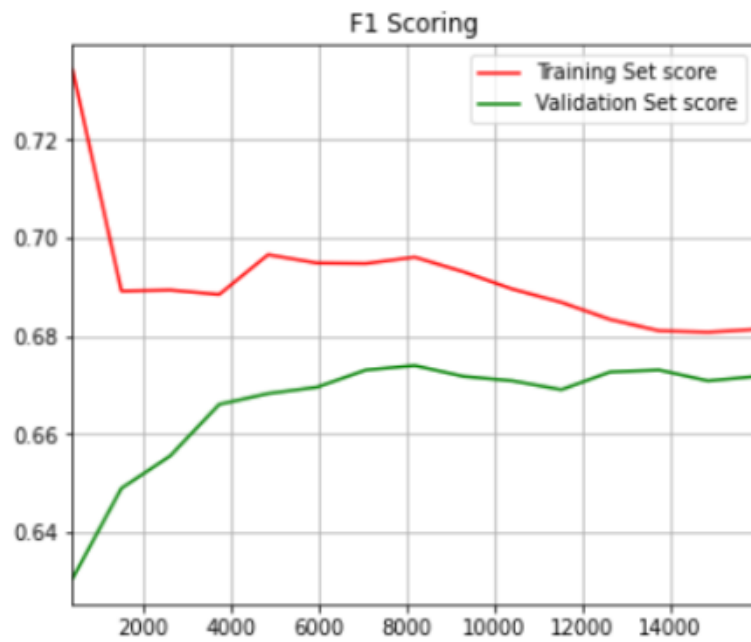
- min_df, max_df, preprocessing, stop words



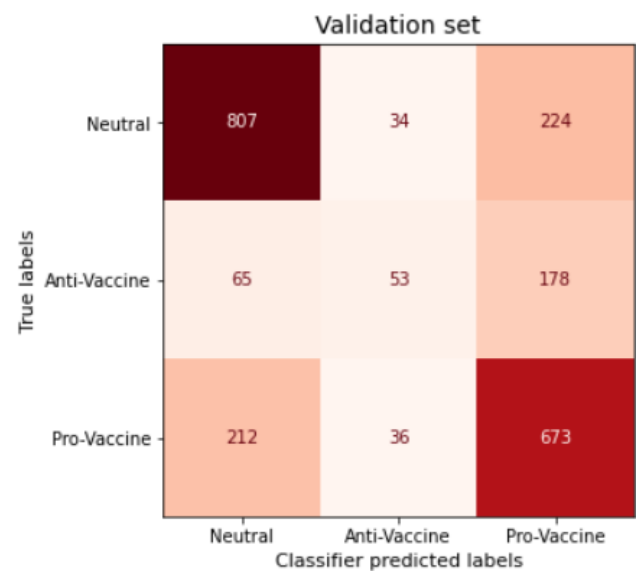
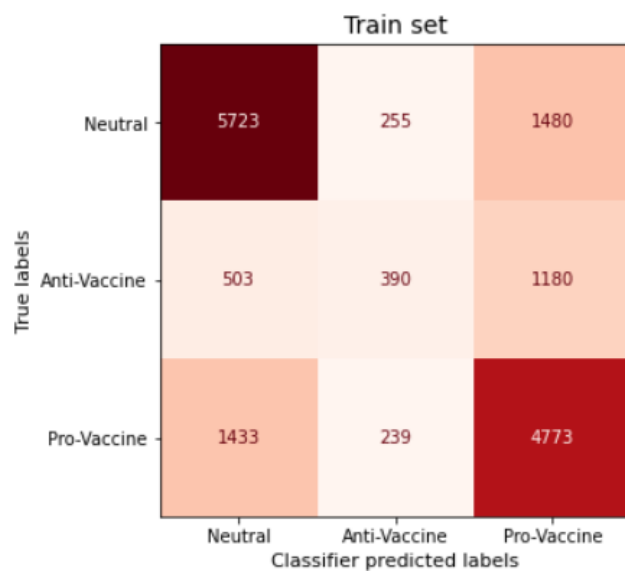
- `min_df, max_df`



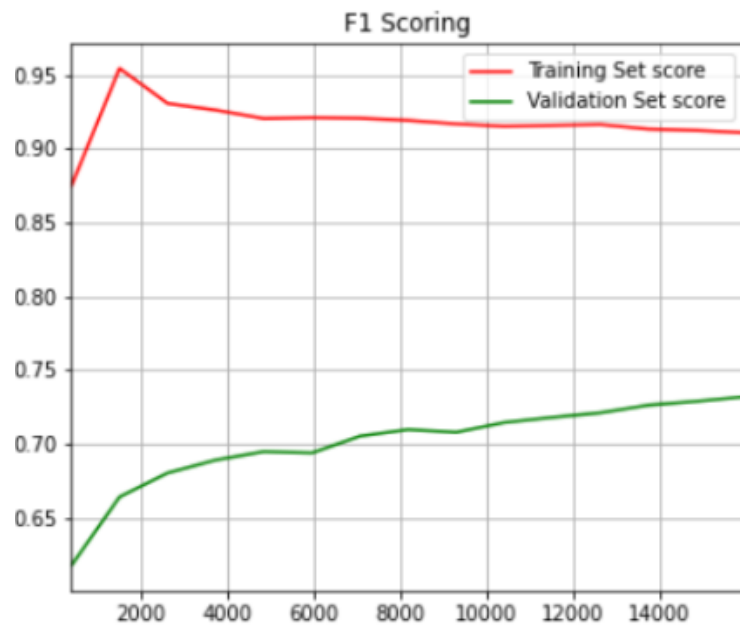
- min_df, max_df, preprocessing, stop words, ngram_range



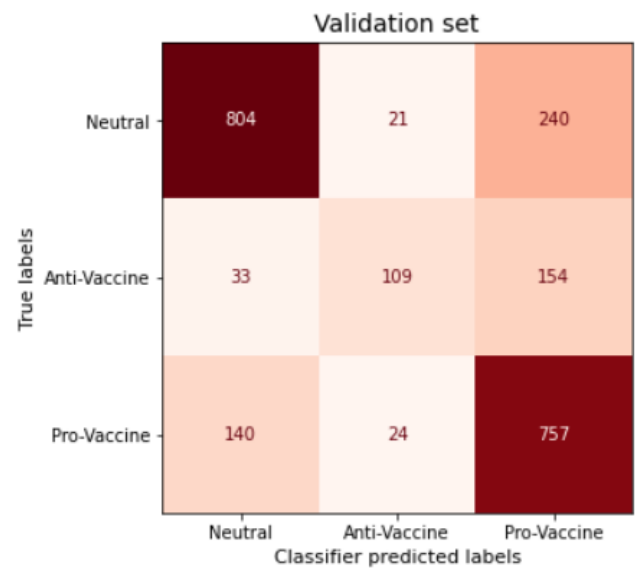
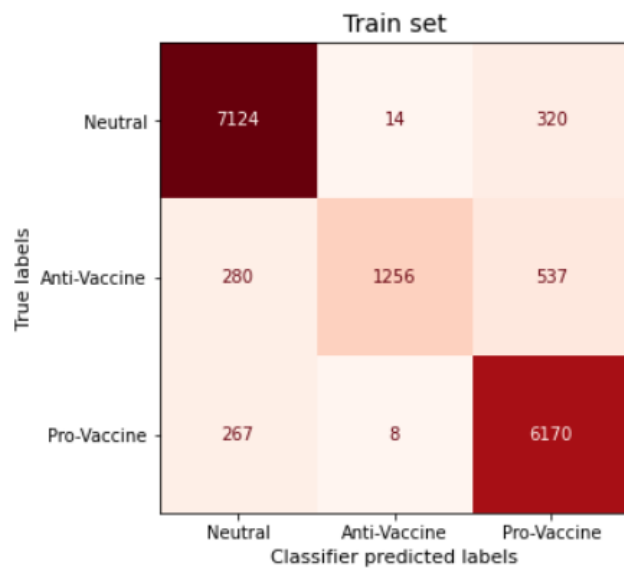
	F1	Precision	Recall
Train	0.6814	0.6102	0.5654
Validation	0.6718	0.6005	0.5558



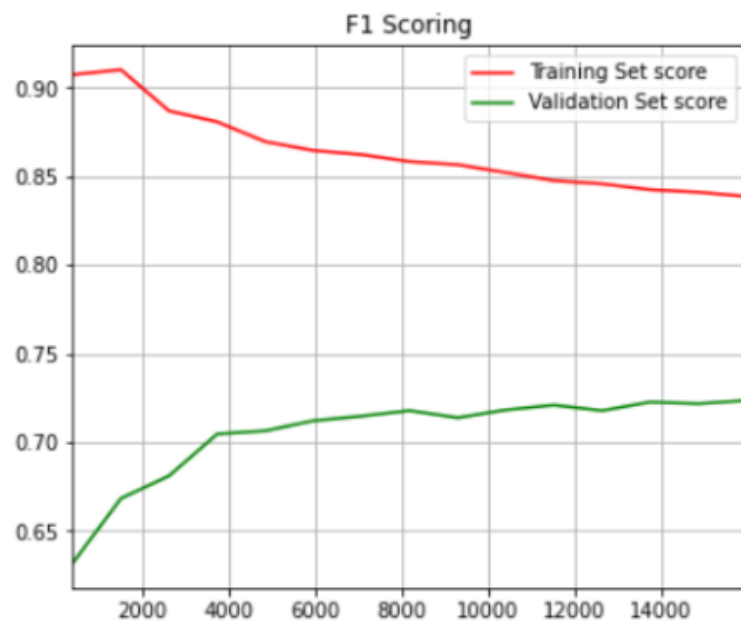
- preprocessing, stop words, `ngram_range`



	F1	Precision	Recall
Train	0.9107	0.9298	0.8395
Validation	0.7318	0.7295	0.6484



- preprocessing, stop words



	F1	Precision	Recall
Train	0.8386	0.8528	0.7600
Validation	0.7235	0.7068	0.6407

