	Accuracy	macro avg_precision	macro avg_recall	macro avg_F1-score	weighted avg_preision	weighted avg_Recall	weighted avg_F1-score
SVM							
SVM_linear	0.85	0.66	0.56	0.59	0.83	0.85	0.84
SVM_poly	0.82	0.65	0.42	0.45	0.8	0.82	0.77
SVM_liner+StopWord	0.85	0.65	0.54	0.58	0.83	0.85	0.84
SVM_poly+StopWord	0.83	0.69	0.4	0.42	0.8	0.83	0.77
SVM_linear(TF_IDF)	0.87	0.73	0.52	0.54	0.84	0.87	0.84
SVM_linear(TF_IDF+stopword)	0.87	0.72	0.52	0.54	0.84	0.87	0.83
SVM_linear(stemmed_count_vect)	0.85	0.66	0.53	0.57	0.83	0.85	0.83
SVM_linear(TF_IDF+stopword+normalization)	0.87	0.72	0.51	0.53	0.84	0.87	0.83
SVM_linear(normalization+stemmed_count_vect)	0.86	0.72	0.5	0.52	0.84	0.86	0.83
SVM_linear(POS tagging)	0.85	0.65	0.56	0.59	0.83	0.85	0.84
SVM_linear(POS tagging + stopword)	0.85	0.65	0.55	0.58	0.83	0.85	0.84
SVM_linear(word2vec)	0.85	0.53	0.48	0.49	0.79	0.85	0.81
KNN							
KNN_3	0.81	0.54	0.45	0.45	0.77	0.81	0.78
KNN_3+ StopWord	0.82	0.58	0.45	0.45	0.78	0.82	0.79
KNN_3+ StopWord+TF_IDF transformer	0.5	0.47	0.43	0.31	0.79	0.5	0.56
KNN_3(TF-IDF)	0.41	0.46	0.42	0.27	0.8	0.41	0.47
KNN_3(TF_IDF + stopword)	0.5	0.43	0.43	0.31	0.78	0.5	0.56
KNN_3 (stemmed countvector+stopword)	0.83	0.58	0.47	0.47	0.79	0.83	0.8
KNN_3+ StopWord+normalization	0.69	0.51	0.47	0.4	0.78	0.69	0.71
KNN_3 (stemmed countvector+stopword+norma	0.72	0.52	0.5	0.42	0.8	0.72	0.73
SVM_linear(POS tagging)	0.81	0.54	0.44	0.46	0.77	0.81	0.78
SVM_linear(POS tagging + stopword)	0.81	0.52	0.44	0.45	0.76	0.81	0.78
KNN3(word2vec)	0.8	0.57	0.57	0.57	0.82	0.8	0.81
LR							
LR	0.87	0.7	0.53	0.56	0.84	0.87	0.84
LR+stopwords	0.86	0.67	0.56	0.6	0.83	0.86	0.84
LR+stopwords+TF_idf transformer	0.87	0.69	0.53	0.56	0.84	0.87	0.84
LR(TF_IDF)	0.86	0.69	0.53	0.57	0.84	0.86	0.84
LR(TF_IDF+stopwords)	0.87	0.72	0.53	0.57	0.84	0.87	0.84
LR(TF_IDF+stopwords+TF_IDF transformer)	0.86	0.7	0.52	0.56	0.84	0.86	0.84
LR(stopword+stemming)	0.86	0.69	0.55	0.6	0.84	0.86	0.84
LR (stopword+normaliztion)	0.86	0.71	0.52	0.55	0.83	0.86	0.83
LR (stopword+ steeming+normaliztion)	0.86	0.68	0.53	0.55	0.83	0.86	0.83
LR(POS tagging)	0.86	0.7	0.53	0.58	0.84	0.86	0.84
LR(POS tagging + stopword)	0.86	0.67	0.57	0.6	0.84	0.86	0.85
LR(word2vec)	0.85	0.64	0.49	0.5	0.81	0.85	0.82
NB							
MultinomialNB	0.86	0.64	0.56	0.59	0.83	0.86	0.84
MultinomialNB+stopword removel	0.86	0.65	0.54	0.58	0.83	0.86	0.84
MultinomialNB+stopword +TF_IDF transformer	0.84	0.57	0.42	0.43	0.79	0.84	0.79
MultinomialNB(TF_DF)	0.85	0.77	0.47	0.49	0.84	0.85	0.81
MultinomialNB(TF_DF +stopword)	0.85	0.77	0.46	0.49	0.84	0.85	0.81
MultinomialNB+stopword +stemming	0.86	0.7	0.48	0.5	0.83	0.86	0.83
MultinomialNB+stopword + normalization	0.86	0.71	0.47	0.49	0.83	0.86	0.82
MultinomialNB+stopword +stemming + normaliz	0.86	0.68	0.47	0.5	0.82	0.86	0.82
MultinomialNB(POS tagging)	0.85	0.63	0.56	0.59	0.83	0.85	0.84
MultinomialNB(POS tagging+stopword)	0.85	0.64	0.54	0.57	0.82	0.85	0.83
MultinomialNB(word2vec)	0.81	0.27	0.33	0.3	0.66	0.81	0.73

Basic supervised ML

Deep Learing	FNN	0.81	0.27	0.33	0.3	0.65	0.81	0.72
	CNN	0.85	0.39	0.38	0.38	0.79	0.85	0.82
	LSTM	0.82	0.27	0.33	0.3	0.66	0.82	0.73
	Bi_LSTM	0.87	0.87	0.87	0.87	0.85	0.87	0.84
	RNN	0.81	0.43	0.43	0.43	0.74	0.81	0.77
	GRU	0.81	0.43	0.34	0.31	0.71	0.81	0.73
TL 2-epochs	Bert_base_uncased	0.88	0.72	0.59	0.63	0.86	0.88	0.86
	DistilBert-base-uncased	0.88	0.73	0.58	0.62	0.85	0.88	0.86
	AlBert	0.88	0.73	0.58	0.62	0.85	0.88	0.86
	Roberta	0.89	0.75	0.62	0.66	0.87	0.89	0.87
	Robart-large	0.89	0.76	0.64	0.68	0.88	0.89	0.88
TL-4 epochs	Bert_base_uncased	0.88	0.7	0.61	0.64	0.86	0.88	0.86
	DistilBert-base-uncased	0.87	0.71	0.61	0.64	0.86	0.87	0.86
	AlBert	0.88	0.72	0.63	0.67	0.87	0.88	0.87
	Roberta	0.89	0.74	0.64	0.67	0.87	0.89	0.88
	Robart-large	0.9	0.75	0.66	0.7	0.88	0.9	0.89
TL-8 epochs	Bert_base_uncased	0.86	0.67	0.61	0.64	0.85	0.86	0.85
	DistilBert-base-uncased	0.86	0.66	0.61	0.63	0.85	0.86	0.85
	AlBert	0.87	0.67	0.65	0.66	0.86	0.87	0.86
	Roberta	0.89	0.73	0.66	0.69	0.87	0.89	0.88
	Robart-large	Not defined due to resource constraints						
TL-16 epochs	Bert_base_uncased	0.86	0.68	0.61	0.64	0.85	0.86	0.85
	DistilBert-base-uncased	0.86	0.68	0.61	0.64	0.85	0.86	0.85
	AlBert	0.87	0.68	0.64	0.66	0.86	0.87	0.87
	Roberta-base	0.89	0.73	0.66	0.69	0.88	0.89	0.88
	Robart-large	Not defined due to resource constraints						