Data set Overview

	Capacity	Modality
Dataset-Reddit	12000	Single
Dataset- Twitter	900	Single
DS- Reddit + Twitter	12900	Single

Result without Hyperparameter Tuning

			Precision	Recall	F1-Score	Support	Accuracy
	SVM	Anxiety	0.70	0.70	0.70	416	70.75 %
		Bipolar	0.65	0.81	0.72	412	
		Depression	0.72	0.67	0.69	443	
		Neutral	0.19	0.18	0.18	17	
Reddit + Twitter		Normal	0.62	0.25	0.36	32	
		PTSD	0.81	0.71	0.76	427	
	KNN	Anxiety	0.60	0.36	0.45	416	39.61 %
		Bipolar	0.31	0.83	0.45	412	
		Depression	0.46	0.35	0.40	443	
		Neutral	0.00	0.00	0.00	17	
		Normal	0.29	0.06	0.10	32	
		PTSD	0.81	0.11	0.20	427	

			Precision	Recall	F1-Score	Support	Accuracy
	Logistic	Anxiety	0.78	0.73	0.75	416	
		Bipolar	0.66	0.84	0.74	412	
		Depression	0.74	0.72	0.73	443	73.78 %
	Regression	Neutral	0.08	0.06	0.07	17	
		Normal	0.78	0.22	0.34	32	
		PTSD	0.83	0.74	0.78	427	
	Naive Bayes	Anxiety	0.69	0.72	0.70	416	
		Bipolar	0.79	0.56	0.65	412	
Reddit + Twitter		Depression	0.65	0.82	0.72	443	69.02.0/
		Neutral	0.17	0.29	0.21	17	68.92 %
		Normal	0.14	0.03	0.05	32	
		PTSD	0.73	0.72	0.72	427	
	Random Forest	Anxiety	0.76	0.77	0.76	416	
		Bipolar	0.70	0.77	0.74	412	
		Depression	0.69	0.80	0.74	443	74.87 %
		Neutral	0.20	0.06	0.09	17	
		Normal	0.83	0.16	0.26	32	
		PTSD	0.88	0.73	0.80	427	

Result with Hyperparameter Tuning

			Precision	Recall	F1-Score	Support	Accuracy
	Logistic Regression	Anxiety	0.80	0.75	0.77	416	
		Bipolar	0.66	0.85	0.74	412	
		Depression	0.75	0.74	0.75	443	75.27 %
Reddit + Twitter		Neutral	0.14	0.12	0.13	17	
		Normal	0.78	0.22	0.34	32	
		PTSD	0.86	0.75	0.80	427	
	KNN	Anxiety	0.65	0.34	0.45	416	
		Bipolar	0.32	0.82	0.46	416	
		Depression	0.47	0.39	0.43	443	41.27 %
		Neutral	0.00	0.00	0.00	17	
		Normal	0.26	0.19	0.22	32	
		PTSD	0.73	0.15	0.24	427	

			Precision	Recall	F1-Score	Support	Accuracy
		Anxiety	0.78	0.71	0.74	416	72.07 %
		Bipolar	0.61	0.83	0.70	412	
		Depression	0.75	0.70	0.72	443	
	SVM	Neutral	0.13	0.12	0.12	17	
		Normal	0.57	0.12	0.21	32	
		PTSD	0.84	0.71	0.77	427	
	Naive Bayes	Anxiety	0.68	0.74	0.71	277	
Reddit + Twitter		Bipolar	0.77	0.63	0.69	283	70.16 %
		Depression	0.69	0.81	0.74	316	
		Neutral	0.20	0.43	0.27	14	
		Normal	0.17	0.04	0.07	23	
		PTSD	0.75	0.69	0.72	304	
	Random Forest	Anxiety	NA	NA	NA	NA	
		Bipolar	NA	NA	NA	NA	
		Depression	NA	NA	NA	NA	- NA
		Neutral	NA	NA	NA	NA	
		Normal	NA	NA	NA	NA	
		PTSD	NA	NA	NA	NA	