

Classification Report of previous models for Mental Health Detection

Link	Model	Accuracy	Classes (Count)	Classes Used	Macro Avg (Prec / Rec / F1)	Weighted Avg (Prec / Rec / F1)
Notebook 1	Tuned Bernoulli Naive Bayes	0.56	7	Anxiety, Bipolar, Depression, Normal, Personality disorder, Stress, Suicidal	0.80 / 0.36 / 0.38	0.64 / 0.56 / 0.51
Notebook 2	XGBClassifier	0.78	7	Anxiety, Bipolar, Depression, Normal, Personality disorder, Stress, Suicidal	0.74 / 0.78 / 0.76	0.78 / 0.78 / 0.77
Notebook 2 (same)	Fine-tuned LLaMA 3.1	0.91	4	Normal, Depression, Anxiety, Bipolar	0.90 / 0.84 / 0.87	0.91 / 0.91 / 0.91
Notebook 3	Logistic Regression	0.76	7	Anxiety, Bipolar, Depression, Normal, Personality disorder, Stress, Suicidal	0.76 / 0.74 / 0.75	0.76 / 0.76 / 0.76
Notebook 4	Logistic Regression (Tuned,	0.87	7	Anxiety, Bipolar, Depression, Normal,	0.88 / 0.86 / 0.87	0.87 / 0.87 / 0.87

	C=100)			Personality disorder, Stress, Suicidal		
Notebook 5	BERT + LSTM	0.70	7	Normal, Depression, Suicidal, Anxiety, Bipolar, Stress, Personality disorder	0.64 / 0.74 / 0.66	0.76 / 0.70 / 0.70
Notebook 6	BERT	0.83	7	Normal, Depression, Suicidal, Anxiety, Stress, Bipolar, Personality disorder	0.81 / 0.82 / 0.81	0.83 / 0.83 / 0.83