

CHATGPT DIETARY STRUGGLE RESPONSES CLASSIFICATION REPORT

The table provided offers a summary of evaluation metrics for three distinct machine learning models—Support Vector Machine (SVM), Naive Bayes, and Logistic Regression—applied to the task of classifying ChatGPT responses within a variety of contexts related to dietary struggles. These contexts include reflection, reframing, comfort, and suggestion. Each model has been evaluated across these contexts to understand its effectiveness in accurately categorizing the responses. The evaluation metrics presented in the table help in comparing the models' abilities to handle the nuances of language and context in providing supportive responses to dietary challenges, highlighting their respective strengths and weaknesses in processing, and classifying textual data within specified categories.

Model/Candidate	Accuracy	Balanced Accuracy	Precision Macro	Recall Macro	F1 Weighted	F1 Macro
SVM/Reflection	0.84	0.53	0.82	0.53	0.78	0.51
SVM/Comfort	0.80	0.52	0.80	0.52	0.72	0.48
SVM/Reframing	0.82	0.52	0.86	0.52	0.75	0.49
SVM/Suggestion	0.83	0.51	0.81	0.51	0.76	0.47
NB/Reflection	0.83	0.52	0.84	0.52	0.77	0.49
NB/Comfort	0.80	0.52	0.79	0.52	0.72	0.48
LG/Reflection	0.84	0.52	0.86	0.52	0.78	0.50
LG/Comfort	0.78	0.51	0.72	0.51	0.72	0.48

Note:

SVM: Support Vector Machine.

NB: Naïve Bayes.

LG: Logistic Regression.