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# CAMPUSMOOD: AI-BASED STUDENT WELL-BEING AND FEEDBACK ANALYSIS SYSTEM

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*There is an intricate relationship between the psychological well-being of a student and his/her academic achievement. In this paper, we introduce CampusMood, an innovative hybrid ensemble approach which integrates three diverse methods for sentiment analysis – TextBlob, VADER, and TF-IDF-SVM – into a Tri-Modal Sentiment Fusion (TMSF) score. Subsequently, the TMSF score is merged with normalised academic measures through an adaptive mood scoring engine called AMS to arrive at a composite Mood Score $M \in [-1, +1]$ for each student. An automated early warning mechanism classifies students into three levels of risk according to specific rules. Tested on a data set of 3,000 records collected from five departments, TMSF shows a high level of accuracy (88.7%) and macro F1-score (87.2%). The Mood Score exhibits a highly significant positive correlation with WHO-5 well-being index scores $r = 0.67$ ($p < 0.001$).*