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Track Name: CMLDS2025

Paper ID: 40

Paper Title: Machine Learning Approach for Depression Prediction using XGBoost Classification

Abstract:
This study develops a machine learning model to predict depression using an XGBoost classifier. Depression is a serious health issue that affects millions of people worldwide. Detecting it early with automated tools can help provide timely support and treatment. Our model uses information about a person's background and daily habits to determine whether they may be experiencing depression. The model performed well in testing, showing that machine learning can be useful in mental health screening. This research helps advance the use of technology in mental health by providing a data-driven way to assess the risk of depression.
Keywords: Mental Health Screening, Machine Learning for Depression Prediction, XGBoost Classifier, Computational Psychiatry

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