ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

TITLE: Machine learning model for Mental Health Prediction

Team Number: 17

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PROBLEM STATEMENT:

Mental health disorders are often underdiagnosed, leading to severe consequences for individuals. This project aims to develop a web-based tool using various machine learning algorithms to predict the probability of mental illness based on user-provided data, facilitating early detection and intervention.

PROJECT IMPLEMENTATION OVERVIEW:

This project involves developing a web application that predicts the likelihood of mental health issues using machine learning algorithms. The process begins with data collection, feature engineering, and model training using algorithms like Logistic Regression, Random Forest, and Neural Networks. The selected model is then integrated into a user-friendly web interface, allowing users to input personal details such as age, gender, sleep patterns, and more. Based on these inputs, the web page provides a prediction of mental illness probability, supporting users and healthcare providers in making informed decisions. Continuous updates and user feedback ensure the model's accuracy and reliability.