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AI-Based Mental Health Diagnosis

Abstract

Mental health issues are growing concerns worldwide, but traditional methods of diagnosis often depend on lengthy consultations and subjective assessments, which can delay treatment. Our project, *AI-Based Mental Health Diagnosis*, aims to bridge this gap by leveraging advanced artificial intelligence techniques to provide an innovative solution for mental health assessment and diagnosis. *AI-Based Mental Health Diagnosis*, aims to create a smart, accessible, and accurate tool for identifying mental health conditions early. Using artificial intelligence techniques like natural language processing (NLP) and machine learning, our system analyzes user inputs, such as text responses, mood patterns, and data from wearable devices, to assess mental health. Key features of the project include quick self-assessments, personalized recommendations, real-time monitoring, and alerts for early detection of mental health risks. By leveraging advanced machine learning techniques and natural language processing, our AI model aims to analyze diverse data sources, including clinical records, patient interviews, and social media interactions. Through the analysis of patterns, trends, and linguistic cues, the model will identify potential indicators of mental health disorders, such as depression, anxiety, and bipolar disorder. The system is designed to be user-friendly, culturally inclusive, and secure, ensuring privacy and ethical use of data. By supporting early diagnosis and guiding individuals to appropriate care, this tool can make mental health support more accessible, reduce stigma, and improve overall well-being. The system provides early detection, enhanced accuracy in diagnosis by minimizing human error and accessible for a wide range of population. It also aims to complement existing mental health services by acting as a first line of support, reducing the burden on healthcare systems, and enabling individuals to seek timely and effective help.

Signature of Guide

Signature of Project Co-ordinator