

ABSTRACT

The “Chatbot for Mental Health Follow Up and Depression Analysis” is an innovative solution designed to provide ongoing support and assessment for individuals struggling with mental health issues. The aim of the chatbot is to provide continuous support, monitor user well-being and analysing symptoms of depression through natural language interactions. Utilizing machine learning algorithms including Long Short-Term Memory, advanced Natural Language Processing and sentiment analysis, the chatbot engages with the users in a conversation, offering empathetic responses and monitoring changes in linguistic patterns indicative of depression. This comprehensive approach aims to enhance mental health care accessibility and contribute to early detection and management of depression through an intelligent and empathetic virtual companion. Depression is the most common type of physiological or mood disorder affecting many individuals around the globe. Overall, the Chatbot for Mental Health Follow Up and Depression Analysis aims to bridge the gap in mental health care by offering a scalable, accessible, and user-centric solution for individuals seeking support for depression and other mental health challenges.