

Submission Summary

Conference Name

2025 2nd International Conference on Computing and Data Science (ICCDs)

Paper ID

1911

Paper Title

AI POWERED EMOTIONAL CHATBOT FOR STUDENT MENTAL HEALTH SUPPORT

Abstract

Mental health challenges among students are increasingly prevalent, yet many hesitate to seek help due to stigma, lack of resources, or fear of judgment. This project presents CalmConnect, an AI-powered emotional support chatbot designed to provide empathetic, non-judgmental assistance to students struggling with emotional and mental well-being. Using Natural Language Processing (NLP) and sentiment analysis, the chatbot can detect users' emotional states and respond with supportive, compassionate messages tailored to their needs. It covers a wide range of emotions including stress, anxiety, depression, loneliness, and more through pattern recognition and intent classification using a structured intents dataset. Developed using Python (Flask backend) and an interactive web interface, CalmConnect offers real-time conversational support and grounding techniques. By integrating emotional intelligence with AI, the chatbot aims to bridge the gap between students and mental health support, promoting early intervention, emotional resilience, and psychological well-being in a safe and accessible digital environment.

Created

4/11/2025, 11:46:13 AM

Last Modified

4/11/2025, 11:48:36 AM

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Submission Files

student mental health chatbot paper.pdf (504.4 Kb, 4/11/2025, 11:45:57 AM)