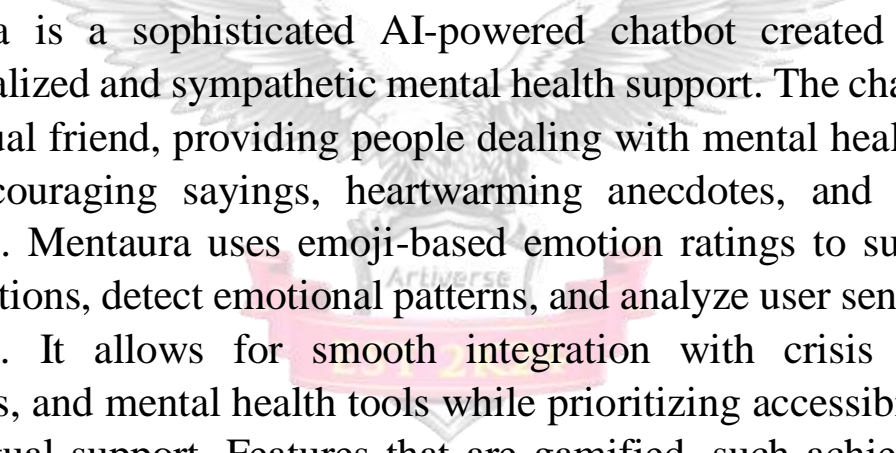




ARTIVERSE 2.0

Team Name	: SKY8IVE CODERS
Theme	: Health
Title	: Mentaura: The AI-Powered Mental Health Companion
Team Members	1. Devapriyan P 2. Nandhitha SPP 3. Winston S

ABSTRACT



Mentaura is a sophisticated AI-powered chatbot created to offer individualized and sympathetic mental health support. The chatbot acts as a virtual friend, providing people dealing with mental health issues with encouraging sayings, heartwarming anecdotes, and pertinent guidance. Mentaura uses emoji-based emotion ratings to summarize conversations, detect emotional patterns, and analyze user sentiment in real-time. It allows for smooth integration with crisis services, therapists, and mental health tools while prioritizing accessibility with multilingual support. Features that are gamified, such as achievements, daily challenges, and mood tracking, motivate users to maintain their interest and promote constructive behavior.

Using state-of-the-art technology, Mentaura provides a user-friendly, interactive, and empathetic experience that bridges the gap between technology and mental health. The chatbot serves as a one-stop shop, enabling users to investigate their mental health journey and fostering peace and healing in a customized manner.

KEYWORDS:

Mentaura, AI-powered chatbot, Mental health support, Personalized interactions, Motivational quotes, Inspirational stories, User sentiment analysis, Multilingual support, Gamified features, Mood tracking, Daily challenges, User friendly.

PROGRAMMING LANGUAGES & TOOLS:

Frontend: HTML, CSS, JavaScript, Web Speech API

Backend: Flask, LangChain with Ollama, PyMongo

Database: MongoDB

NLP and AI: TextBlob/VADER, Hugging Face Transformers

Voice Interactivity: Google Speech Recognition API or OpenAI Whisper, gTTS/pyttsx3 Gamification: Python-Schedule, Custom Achievements System

APIs and Integrations: Google Translate API, External Crisis Hotline APIs

Deployment: Gunicorn, AWS/Google Cloud/Heroku, Docker

Open-Source Tools: sonlines, Matplotlib