Mental Health and Wellbeing - Capstone Project

Part of Kaggle - 5 Day Intensive Course on Generative AI

Project Launch

This project was launched on 7th April 2025, on the occasion of World Health Day, to address the increasingly important topic of mental health using modern AI techniques. It aims to combine the power of large language models with responsible health-oriented applications.

Project Overview

This capstone project leverages generative AI to analyze mental health data. It classifies text inputs, assigns severity scores from 1 to 10, and generates contextual insights to support mental health awareness and intervention. Advanced techniques like Retrieval-Augmented Generation (RAG), Few-Shot Prompting, and Function Calling have been implemented for robust and dynamic text interpretation.

Techniques Used

- Prompt-driven LLM classification

- Severity scoring on a 1-10 scale

- Threshold-based categorization for analysis

- Dataset-wide status distribution

- RAG and function calls for personalized insights

Resources and Links

Kaggle Notebook

Blog Post

YouTube Video