

COHERENT FINETUNING LARGE LANGUAGE MODELS FOR MENTAL HEALTH CHATBOT

First A. Vishal G B, Second B. Kishore M S, and Third C. Siva Shankari B
St.Joseph's College Of Engineering, Chennai, India

Large language models (LLMs) such as LLaMa, Mistral, Falcon have demonstrated outstanding proficiency in a wide range of natural language tasks. By utilizing these abilities, we have created a customized chatbot for mental health. This was achieved by refining LLaMa2 using a distinct dataset that emphasizes mental health stories and comprehension of emotional context. This chatbot distinguishes itself by not only identifying the user's mental health concerns but also offering compassionate and narrative driven remedies that resonate with characters confronting comparable difficulties. Furthermore, it includes the capability to track emotional context, so improving the overall assistance experience. Our strategy, which involves utilizing open-source datasets and employing finetuning techniques, showcases significant enhancements in the chatbot's ability to provide sympathetic responses and engage with users, despite the challenges associated with training and implementation.