

TEAM-4

TherapEase

Chatbot for Mental Health!





Problem Statement

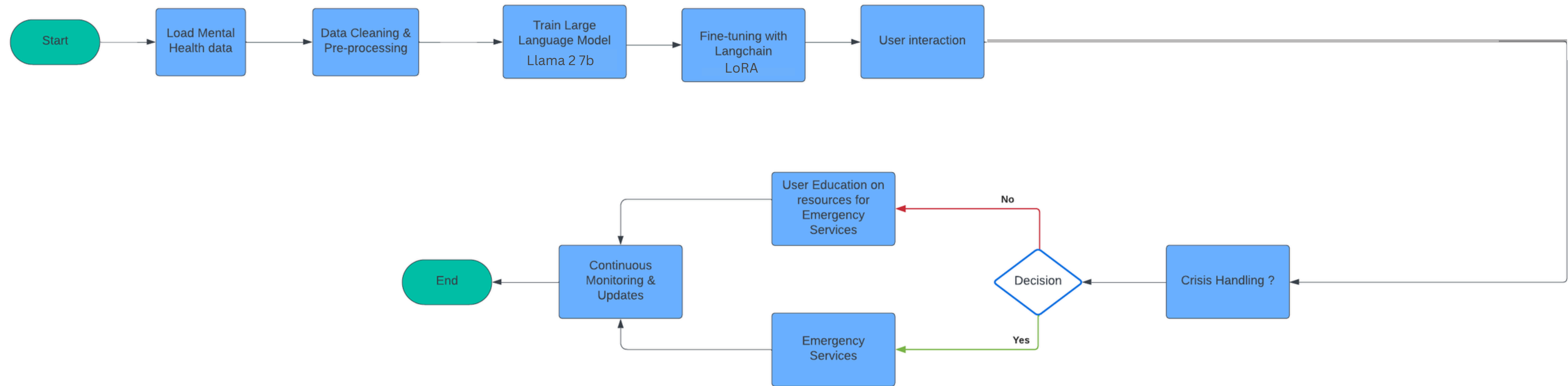
In a world where mental health awareness is increasingly vital, our chatbot provides empathetic conversations and personalized coping strategies

Our chatbot aims to foster well-being and resilience in individuals seeking support in their mental health journey

Github Link



Chatbot Pipeline



Dataset

- The dataset consists of-
 - A question that is to be asked by the user
 - The response to the question, is given by the chatbot

<https://huggingface.co/AnanyaA/Therapease>

- The dataset combines over 3-4 online sources from various platforms to ensure diversity. This includes:
 - i) Huggingface: Conversations between users and psychologists on mental health.
 - ii) Kaggle: AI-based Q&A pairs for mental health support.
 - iii) Other online sources: FAQs deemed impactful for inclusion.

MentaLlama Finetuning

- Fine tuned our dataset on MentaLlama 7b
- Our model is klyang/ MentaLLaMA-chat-7b
- We train it on our custom dataset : AnanyaA/Therapease
- Fine tuned using QLoRA
- Added QLoRA adapters so we only need to update 1 to 10% of all parameters

Meet Pandora- A Therapeutic AI Assistant

- Pandora is a responsive and empathetic AI chatbot.
- Available 24/7, users receive instant feedback and assistance crucial for mental health support
- Pandora offers a safe space for users to share their feelings without fear of judgement
- By saving history, Pandora is ready to offer more personalized support to users and aids users to continue where they left off
- Pandora is free to use, ensuring that financial barriers don't prevent anyone from getting support

IMPROVEMENTS

➤ **Better responses**

Customise the responses to adapt to the Indian population

➤ **Create a UI/UX**

Currently the chatbot's interface is on Jupyter, but adding a proper UI/UX would lead a to a more interactive interface

➤ **Multi-Lingual Support**

Expand language options to include more languages, ensuring easier usage for users from diverse backgrounds

➤ **Ensuring access for the deaf and blind**

Integrate with Braille display devices and support sign language through video input and incorporate visual cues and notifications

OUTCOMES

➤ **Empowering users**

Providing users with a safe space to express themselves

➤ **Educational Resources**

Our chatbot serves as an educational tool to raise awareness about the stigma surrounding mental health

➤ **Data driven insights**

Harnessing insights from chatbot interactions to inform future decision-making and service improvements.

Thank You!

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