

Assessment Problem Statement:

LLM prompting Requirement:

The candidate should be well-versed in prompt/instruction tuning, one-shot/few-shot learning, LLM literature analysis, and Python programming.

Key Tasks & Responsibilities:

- Develop and optimize large language models (LLM) for Postpartum, Anxiety and Stress
- Develop and optimize ChatGPT/OpenAI/Text Generative models for conversational AI systems.

Utilize prompt/instruction tuning techniques to improve the performance of LLMs.

- Utilize one-shot/few-shot learning techniques to enhance the capabilities of LLMs.
- Conduct thorough analysis and experimentation to optimize prompts and enhance AI model performance.
- Develop and maintain code for LLM development and optimization using Python Programming.

TASK to be done:

- 1) Create a chatbot pipeline with Open AI endpoint
- 2) Play with the different type & techniques of prompts for the Scenario given below.

TYPE & TECHNIQUE OF PROMPTS:

Eventually the different format and type of prompt to be must tried out are given below:

- 1)How to prompts for a domain (E.g: Medical Postpartum care/Anxiety)

Try different prompts such as:

- o Open ended
- o Instruction
- o Multiple Choice
- o Fill in the blank
- o Binary
- o Ordering
- o Prediction
- o Explanation
- o Opinion
- o Scenario

o Comparative

2) Prompting Techniques

- Role play (eg Acting as a [ROLE] perform a [TASK] in the required [FORMAT])
- Chained
- Linked
- Tree of thought
- Instructional
- Add Examples
- Style (Formal, informal, Persuasive, Descriptive, Humorous, narrative, Inspirational)
- Temperature

3) Avoiding Plagiarism with ChatGPT

- Method to detect.
- Adjust the writing style

Scenario to Consider: POSTPARTUM Care, Detection Emotional Features, Create avatars to express the user emotions, etc.

Here is scenario example.

Example Questions:

- What is postpartum depression? What are the signs and symptoms?
- What should I do to help prevent post-delivery infections?
- What should I do to prevent deep vein thrombosis?
- What activities are safe to do in the first few days? Which activities should I avoid?
- Are there certain foods or beverages I should avoid when breastfeeding?

Problems:

- Physical recovery from birth.
- Sexuality, contraception, and birth spacing.
- Mood and emotional well-being.
- Infant care and feeding.
- Sleep and fatigue.
- Ongoing preventive health maintenance. • Exercise