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Ex no:5 Comparative analysis of different types pf prompting patterns and explain with various test scenarios

AIM:

 To comparative analysis of navie prompting versus basic prompting across various test scenario

Algorithm:

Define the Two Prompt Types: Naïve Prompts: Broad, vague, or open-ended prompts with little specificity. Basic Prompts: Clear, detailed, and structured prompts that give specific instructions or context to guide the model. Prepare Multiple Test Scenarios: Select various scenarios such as: Generating a creative story. Answering a factual question. Summarizing an article or concept. Providing advice or recommendations. Or Any other test scenario For each scenario, create both a naïve and a basic prompt. Ensure each pair of prompts targets the same task but with different levels of structure. Run Experiments with ChatGPT: Input the naïve prompt for each scenario and record the generated response. Then input the corresponding basic prompt and capture that response. Repeat this process for all selected scenarios to gather a full set of results. Evaluate Responses : Compare how ChatGPT performs when given naïve versus basic prompts and analyze the output based on Quality,Accuracy and Depth. Also analyse does ChatGPT consistently provide better results with basic prompts? Are there scenarios where naïve prompts work equally well? Deliverables: A table comparing ChatGPT's responses to naïve and basic prompts across all scenarios. Analysis of how prompt clarity impacts the quality,

Zero-Shot Prompting:

Zero-shot prompting is when you ask an AI model to complete a task without giving it any prior examples or demonstrations. The model must rely solely on the prompt itself to understand what you're asking and generate a relevant response.

☑ Reframed Example

Prompt (Zero-Shot):
"Can you give me some travel tips for visiting Japan?"

AI's Response:
Certainly! Here are some useful tips for traveling to Japan:

1. **Learn basic Japanese phrases** like "Arigatou" (Thank you) and "Sumimasen" (Excuse me).

2. **Use a Japan Rail Pass** if you're traveling between cities—it saves time and money.

3. **Respect local customs**, like removing shoes before entering homes or certain restaurants.

4. **Carry cash**, as some places don't accept credit cards.

5. **Try local food** such as sushi, ramen, and takoyaki—each region has its own specialties.

6. **Follow etiquette**, such as queuing properly and speaking quietly in public transportation.

🔁 Reframed Version of Your Dog Care Example

Prompt (Zero-Shot):
"Can you give me some tips on how to take care of my dog?"

Reframed Response:
Absolutely! Taking care of a dog involves meeting their physical, emotional, and health needs. Here are some helpful tips:

- **Nutrition**: Provide a balanced diet suitable for your dog's age and breed. Avoid feeding them harmful human foods.

- **Exercise**: Regular walks and playtime are vital to keep them healthy and happy.

- **Grooming**: Brush their coat, trim nails, and keep ears and teeth clean.

- **Health checks**: Visit the vet regularly, keep up with vaccinations, and use flea/tick prevention.

- **Training and socialization**: Teach basic commands and expose them to various environments to reduce anxiety and improve behavior.

Interview Pattern Prompting

Prompt:
"I just bought my first guitar and have no idea how to start learning. Can you guide me and ask questions to help me learn step by step?"

Response Style: Conversational and Tailored

AI Response:
That's exciting—welcome to the world of music! Let's begin with a few questions so I can guide you properly.

Question 1:
What type of guitar did you buy—acoustic, electric, or classical?
You said: *Acoustic*
Great! Acoustic guitars are perfect for beginners. You'll be able to practice chords, rhythm, and even fingerpicking.

Question 2:
Have you played any instrument before, or is this your first time learning music?
You said: *First time*
No problem at all. Starting from scratch can be very rewarding!

Beginner Tips for Acoustic Guitar:

1. **Get familiar with your guitar**: Learn the names of the strings (E-A-D-G-B-E), frets, and how to hold a pick.

2. **Tune your guitar**: Use a digital tuner to make sure your strings are in tune before every session.

3. **Start simple**: Learn three basic chords (G, C, D) and switch between them slowly.

4. **Use short, regular practice sessions**: Try 15–20 minutes twice a day to build muscle memory.

Question 3:
Do you want to learn to read sheet music, or are you more interested in learning by ear or tabs?

🔍 **Summary**: The assistant uses a question-and-answer approach to tailor suggestions to the user's background and preferences.

◇ **3. Few-Shot Prompting**

Prompt:
"My guitar is an acoustic model. I'm new to playing and want to learn a few simple chords and songs. What should I start with?"

Response Style: Detailed and Contextualized

AI Response:
Since you're using an acoustic guitar and just starting out, here's a beginner-friendly plan:

Step 1: Learn Basic Chords

- **Start with open chords**: G, C, D, E, A, and Em are foundational.

- **Practice switching between two chords at a time**: e.g., G to C or A to D.

Step 2: Basic Strumming

- Use a down-down-up-up-down-up pattern to practice rhythm.

- Try muted strumming (without chord shapes) to focus on timing.

Step 3: Play Easy Songs
Here are some beginner-friendly songs:

- *"Knockin' on Heaven's Door"* – G, D, Am

- *"Horse with No Name"* – Em, D6add9

- *"Love Me Do"* – G, C, D

Step 4: Daily Practice Plan

- 10 minutes: chord transitions

- 10 minutes: strumming exercises

- 10 minutes: song practice

🔍 **Summary**: The assistant uses limited context from the user's prompt to deliver structured, tailored, and practical advice—without a full conversation.

RESULT:
The prompt for the above said problem executed successfully