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WGU Practical Applications of Prompt QFO1 Sample Questions (Q40-Q45):

NEW QUESTION # 40

Which prompting technique encourages exploration before choosing a most suitable response?

- A. Cognitive verifier pattern
- B. Generated knowledge
- C. Few-Shot
- D. Tree of thought (TOT)

Answer: D

Explanation:

The Tree of Thought (TOT) technique is an advanced prompt engineering framework specifically designed for complex problem-solving. Unlike standard linear prompting, TOT encourages the model to generate multiple "branches" of reasoning or potential solutions simultaneously. It then evaluates these different paths-acting much like a human "brainstorming" session-before deciding which "branch" is most likely to lead to a successful outcome.

This technique is invaluable for tasks requiring strategic planning or creative exploration where there isn't a single "correct" answer.

By prompting the AI to "think through three different approaches and then select the best one," the user leverages the model's ability to self-critique. While "Few-Shot" provides examples and "Generated Knowledge" provides facts, TOT provides a logical structure for deliberation. This mimics higher-level cognitive processes and significantly improves the model's performance on difficult reasoning tasks by allowing it to "backtrack" if a certain line of reasoning proves to be a dead end, ultimately leading to a more robust and verified final response.

NEW QUESTION # 41

A bank uses an AI model to help evaluate loan applications. The model makes suggestions, but the bank employees have no knowledge of which criteria the model uses to evaluate applicants. What is the associated ethical concern described in the scenario?

- A. Privacy
- **B. Transparency**
- C. Autonomy
- D. Misinformation

Answer: B

Explanation:

The primary ethical concern in this scenario is Transparency, often referred to in the AI field as the "Black Box" problem. Transparency in AI means that the processes, logic, and data used by the system to reach a decision should be understandable and accessible to human stakeholders. When bank employees cannot explain why a loan was denied, it violates the principle of "Explainability," which is a subset of transparency.

This lack of transparency is particularly problematic in high-stakes industries like finance, healthcare, and law. If a model is making biased or incorrect decisions, the lack of transparency makes it impossible to audit the system or correct the underlying error. Many modern regulations, such as the GDPR's "Right to Explanation," require that individuals affected by automated decisions have a right to know the logic behind them. Effective prompt engineering can help address this by using techniques like "Chain of Thought," where the AI is instructed to "show its work" or explain its reasoning process step-by-step, thereby transforming a black-box interaction into a more transparent, "white-box" process.

NEW QUESTION # 42

A user is crafting a prompt and includes both the goal and the context within the text of the prompt. What is a benefit of crafting the prompt in this way?

- **A. Greater interaction effectiveness**
- B. Faster rate of response
- C. Reduced computational load
- D. Improved interface appeal

Answer: A

Explanation:

Combining a clear goal with rich context is the gold standard for achieving greater interaction effectiveness.

The goal tells the AI what to achieve (the destination), while the context explains the circumstances surrounding the task (the map).

When these two elements are present, the AI can generate a response that is not only factually correct but also relevant to the user's specific situation. Effectiveness in AI interactions is measured by how closely the output meets the user's needs on the first try.

When a prompt lacks a goal, the AI might provide a great summary of a topic but fail to perform the required action. When it lacks context, it might perform the action in a way that is inappropriate for the audience. By merging them, the user minimizes "drift"—the tendency for AI to wander into irrelevant topics. This leads to a more professional, tailored, and high-quality interaction. In practical scenarios, such as drafting a corporate policy or creating a marketing strategy, the synergy between goal and context ensures that the AI understands the "big picture," resulting in a much more effective and usable first draft.

NEW QUESTION # 43

What is one example of a task in which natural language processing (NLP) algorithms are employed?

- A. Numerical data cleaning
- B. Interpreting raw values
- C. Increasing raw data precision

- **D. Textual data cleaning**

Answer: D

Explanation:

Natural Language Processing (NLP) is a branch of AI that focuses on the interaction between computers and human language. One of its most practical and widespread applications is Textual data cleaning. When dealing with large datasets of unstructured text—such as customer reviews, social media posts, or support tickets—the data is often "noisy," containing typos, slang, irrelevant HTML tags, or inconsistent formatting.

NLP algorithms are used to standardize this data through techniques like tokenization (breaking text into words), stemming or lemmatization (reducing words to their root form), and "stop word" removal (filtering out common words like "the" or "is" that don't add semantic value). This cleaning process is essential before any higher-level analysis, such as sentiment analysis or topic modeling, can take place. If the data isn't cleaned, the resulting AI model will be less accurate. Unlike "Numerical data cleaning" (Option D), which deals with outliers or missing values in numbers, textual data cleaning requires an understanding of linguistic rules and context, which is the core strength of NLP. Effective prompt engineering often involves asking an AI to perform these cleaning tasks to prepare a dataset for more complex reasoning or summarization.

NEW QUESTION # 44

What is the principle of ethics that is ensured by explaining AI system decision-making to stakeholders and users?

- A. Fairness
- B. Societal impact
- C. Accountability
- **D. Transparency**

Answer: D

Explanation:

Transparency in AI ethics refers to the degree to which an AI system's internal logic, data sources, and decision-making processes are visible and understandable to humans. It is the direct antidote to the "Black Box" problem. When an AI system provides a recommendation, the principle of transparency ensures that stakeholders (such as regulators, developers, and end-users) can understand the "why" behind the output. This is often achieved through "Explainable AI" (XAI) techniques.

In practical prompt engineering, transparency is optimized by instructing the model to provide its reasoning.

For example, using "Chain of Thought" prompting forces the AI to list the steps it took to arrive at a conclusion. This makes the interaction transparent because the user can see if the AI relied on faulty logic or biased data. Transparency builds trust; if a user understands how an AI reached a conclusion, they are more likely to adopt the technology. Furthermore, transparency is a prerequisite for other ethical principles like Fairness and Accountability, as you cannot fix a bias or hold a system accountable if you cannot see how it functions internally.

NEW QUESTION # 45

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