

**1. What is Generative AI?**

- a. A type of supervised learning
- b. An algorithm that generates random numbers
- c. An AI model that creates new data similar to the input data
- d. A form of reinforcement learning

**Answer: c. An AI model that creates new data similar to the input data**

**2. Which of the following is a type of Generative AI model?**

- a. Decision Tree
- b. Support Vector Machine
- c. GAN (Generative Adversarial Network)
- d. K-means clustering

**Answer: c. GAN (Generative Adversarial Network)**

**3. In the context of Generative AI, what does the term "Generative" mean?**

- a. Creating new content
- b. Generalizing data
- c. Generating income
- d. Generating code

**Answer: a. Creating new content**

**4. What is the primary purpose of Generative AI models?**

- a. Classifying data
- b. Predicting outcomes
- c. Generating new data
- d. Optimizing algorithms

**Answer: c. Generating new data**

**5. Which phase is part of the Lifecycle of a Generative AI project?**

- a. Feature extraction
- b. Model training
- c. Hyperparameter tuning
- d. All of the above

**Answer: d. All of the above**

**6. How does Generative AI work in the context of creating new images?**

- a. By copying existing images
- b. By combining elements of different images
- c. By resizing images
- d. By applying filters to images

**Answer: b. By combining elements of different images**

**7. In which of the following areas can Generative AI be applied?**

- a. Image synthesis
- b. Text generation
- c. Music composition
- d. All of the above

**Answer: d. All of the above**

**8. How does Generative AI contribute to software applications?**

- a. Enhancing user interfaces
- b. Automatically fixing bugs
- c. Generating code snippets
- d. All of the above

**Answer: d. All of the above**

**9. What role does Generative AI play in Business and Society?**

- a. Enhancing creativity and innovation
- b. Automating routine tasks
- c. Personalizing user experiences
- d. All of the above

**Answer: d. All of the above**

**10. What distinguishes Generative Pre-trained Transformers (GPTs) from search engines?**

- a. GPTs use machine learning algorithms
- b. Search engines rely on pre-existing databases
- c. GPTs generate content on the fly based on context
- d. Search engines only retrieve stored information

**Answer: c. GPTs generate content on the fly based on context**

**11. What is a potential ethical concern related to Generative AI?**

- a. Lack of interpretability
- b. Overfitting
- c. Underfitting
- d. Model accuracy

**Answer: a. Lack of interpretability**

**12. How can responsible AI practices be implemented in Generative AI projects?**

- a. Ensuring transparency in model decisions
- b. Regularly updating and monitoring models
- c. Incorporating fairness and bias considerations
- d. All of the above

**Answer: d. All of the above**

**13. What is the primary goal of a Generative Adversarial Network (GAN)?**

- a. Image classification
- b. Generating realistic data
- c. Reinforcement learning
- d. Regression analysis

**Answer: b. Generating realistic data**

**14. Which phase of a Generative AI project involves selecting the appropriate model architecture?**

- a. Data preprocessing
- b. Model training

- c. Model selection
- d. Model deployment

**Answer: c. Model selection**

**15. How does Generative AI contribute to natural language processing tasks?** a.

- Translating languages
- b. Summarizing text
- c. Generating human-like text
- d. All of the above

**Answer: d. All of the above**

**16. What is a potential societal impact of widespread use of Generative AI in content creation?** a. Increased job opportunities

- b. Copyright and plagiarism challenges
- c. Enhanced education systems
- d. Reduced digital divide

**Answer: b. Copyright and plagiarism challenges**

**17. In Gen AI, what is the significance of hyperparameter tuning?** a. Adjusting model parameters for better performance

- b. Determining the number of layers in a neural network
- c. Selecting features from the input data
- d. Generating synthetic data

**Answer: a. Adjusting model parameters for better performance**

**18. How does Generative AI impact the concept of data privacy?** a. Enhancing data security

- b. Introducing new privacy risks
- c. Reducing the need for data privacy
- d. Improving data transparency

**Answer: b. Introducing new privacy risks**

**19. What distinguishes Generative AI from traditional rule-based systems?** a.

- Generative AI requires labeled data for training
- b. Generative AI learns patterns and generates new content

- c. Rule-based systems rely on explicit programming
- d. Rule-based systems are only suitable for classification tasks

**Answer: b. Generative AI learns patterns and generates new content**

**20. How can businesses ensure the responsible use of Generative AI in their operations?**

- a. Regularly updating AI models
- b. Implementing ethical guidelines
- c. Providing transparency in AI decision-making
- d. All of the above

**Answer: d. All of the above**

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## Unit – 2

1.	<b>What is Prompt Engineering in the context of computing?</b> <ul style="list-style-type: none"><li>a. Writing code for software applications</li><li>b. Designing user interfaces</li><li>c. Crafting effective prompts for language models</li><li>d. Debugging algorithms</li><li><b>Answer: c. Crafting effective prompts for language models</b></li></ul>
2.	<b>What does the ACHIEVE framework aim to achieve in prompt engineering?</b> <ul style="list-style-type: none"><li>a. Developing new software frameworks</li><li>b. Enhancing the performance of language models</li><li>c. Designing efficient algorithms</li><li>d. Streamlining user interface design</li><li><b>Answer: b. Enhancing the performance of language models</b></li></ul>
3.	<b>In the context of Large Language Models, what is a fundamental aspect of prompt usage?</b> <ul style="list-style-type: none"><li>a. The length of the prompt doesn't matter</li><li>b. Crafting prompts is irrelevant for model performance</li><li>c. The choice of words and structure in the prompt matters</li><li>d. Prompts are only necessary for text generation tasks</li><li><b>Answer: c. The choice of words and structure in the prompt matters</b></li></ul>
4.	<b>What is the primary goal of prompt tuning?</b> <ul style="list-style-type: none"><li>a. Adjusting the volume of prompts used</li><li>b. Fine-tuning language models based on prompts</li><li>c. Deleting irrelevant prompts from the dataset</li><li>d. Ignoring prompts in the training process</li><li><b>Answer: b. Fine-tuning language models based on prompts</b></li></ul>
5.	<b>Which pattern in Prompt Pattern I focuses on refining a question to improve model comprehension?</b> <ul style="list-style-type: none"><li>a. Cognitive Verifier Pattern</li><li>b. Audience Persona Pattern</li><li>c. Flipped Interaction Pattern</li><li>d. Question Refinement Pattern</li><li><b>Answer: d. Question Refinement Pattern</b></li></ul>
6.	<b>How does the Cognitive Verifier Pattern contribute to prompt engineering?</b> <ul style="list-style-type: none"><li>a. It verifies the cognitive abilities of the user</li><li>b. It checks the correctness of the prompt</li></ul>

- c. It ensures that the prompt aligns with the user's mental model
- d. It validates the prompt against a pre-defined set of rules
- **Answer: c. It ensures that the prompt aligns with the user's mental model**

7. **In the Audience Persona Pattern, what aspect of the audience does it focus on?**

- a. Age and gender of the audience
- b. Personal preferences and interests
- c. Cultural background and language proficiency
- d. All of the above
- **Answer: d. All of the above**

8. **What is the key idea behind the Flipped Interaction Pattern in prompt engineering?**

- a. Inverting the traditional user interaction flow
- b. Ignoring user input in the interaction
- c. Reversing the order of prompt and model response
- d. Using random prompts for model training
- **Answer: c. Reversing the order of prompt and model response**

9. **Which aspect of prompt engineering does the ACHIEVE framework address?**

- a. Prompt patterns
- b. Prompt tuning
- c. Both a and b
- d. None of the above
- **Answer: c. Both a and b**

10. **How does question refinement contribute to effective prompt usage?**

- a. It makes prompts longer for better context
- b. It narrows down the focus and clarity of prompts
- c. It is irrelevant to prompt engineering
- d. It decreases the accuracy of language models
- **Answer: b. It narrows down the focus and clarity of prompts**

11. **In prompt engineering, what role does the audience persona play?**

- a. It defines the characteristics of the language model
- b. It helps in understanding the target audience for prompts
- c. It is a type of language model architecture
- d. It is irrelevant to prompt engineering
- **Answer: b. It helps in understanding the target audience for prompts**

12.	<p><b>How does the flipped interaction pattern impact user engagement?</b></p> <ul style="list-style-type: none"> <li>a. It has no impact on user engagement</li> <li>b. It enhances user engagement by providing unexpected responses</li> <li>c. It decreases user engagement by confusing users</li> <li>d. It is only applicable to prompt generation, not user interaction</li> <li><b>Answer: b. It enhances user engagement by providing unexpected responses</b></li> </ul>
13.	<p><b>Which pattern is focused on aligning prompts with the cognitive abilities of the user?</b></p> <ul style="list-style-type: none"> <li>a. Cognitive Verifier Pattern</li> <li>b. Audience Persona Pattern</li> <li>c. Flipped Interaction Pattern</li> <li>d. Question Refinement Pattern</li> <li><b>Answer: a. Cognitive Verifier Pattern</b></li> </ul>
14.	<p><b>How can prompt tuning contribute to overcoming biases in language models?</b></p> <ul style="list-style-type: none"> <li>a. By ignoring certain prompts that introduce biases</li> <li>b. By fine-tuning models to be more sensitive to biased prompts</li> <li>c. By avoiding prompt engineering altogether</li> <li>d. By using only pre-defined prompts</li> <li><b>Answer: a. By ignoring certain prompts that introduce biases</b></li> </ul>
15.	<p><b>What is the significance of the question refinement pattern in prompt engineering?</b></p> <ul style="list-style-type: none"> <li>a. It helps in creating complex and convoluted prompts</li> <li>b. It simplifies and clarifies prompts for better understanding</li> <li>c. It focuses on using a single prompt for all scenarios</li> <li>d. It is only applicable to specific types of language models</li> <li><b>Answer: b. It simplifies and clarifies prompts for better understanding</b></li> </ul>
16.	<p><b>How does the ACHIEVE framework contribute to the effectiveness of prompt engineering?</b></p> <ul style="list-style-type: none"> <li>a. By introducing new programming languages for prompt generation</li> <li>b. By providing a systematic approach to prompt design and tuning</li> <li>c. By eliminating the need for prompt patterns</li> <li>d. By automating the entire prompt engineering process</li> <li><b>Answer: b. By providing a systematic approach to prompt design and tuning</b></li> </ul>
17.	<p><b>What is the primary objective of the cognitive verifier pattern in prompt engineering?</b></p>



- a. To validate the accuracy of prompts
- b. To ensure prompts align with the user's cognitive abilities
- c. To identify and eliminate biased prompts
- d. To automate the process of prompt generation
- **Answer: b. To ensure prompts align with the user's cognitive abilities**

18. **How does prompt engineering impact the performance of language models?**

- a. It has no effect on model performance
- b. It enhances model performance by providing better inputs
- c. It decreases model performance by introducing noise
- d. It only impacts the training time of models
- **Answer: b. It enhances model performance by providing better inputs**

19. **What is the role of prompt patterns in effective prompt engineering?**

- a. To restrict the variety of prompts used
- b. To guide the design and usage of prompts
- c. To eliminate the need for prompt tuning
- d. To automate the prompt generation process
- **Answer: b. To guide the design and usage of prompts**

20. **How can the flipped interaction pattern enhance user experience in prompt-based applications?**

- a. By providing predictable responses
- b. By introducing delays in model responses
- c. By creating unexpected and engaging interactions
- d. By ignoring user prompts
- **Answer: c. By creating unexpected and engaging interactions**