UNIT- 1

What is Generative AI primarily focused on?
A) Creating new data
B) Analyzing existing data
C) Sorting data
D) Deleting data
Answer: A) Creating new data

Which of the following is not a type of Generative AI model?
A) GANs (Generative Adversarial Networks)
B) VAEs (Variational Autoencoders)
C) CNNs (Convolutional Neural Networks)
D) RNNs (Recurrent Neural Networks)
Answer: C) CNNs (Convolutional Neural Networks)

Which of the following is an application of Generative AI?
A) Image recognition
B) Sentiment analysis
C) Text translation
D) Image generation
Answer: D) Image generation

How does Generative AI typically work?
A) By analyzing existing data and making predictions
B) By generating new data from learned patterns in existing data
C) By deleting irrelevant data
D) By summarizing existing data
Answer: B) By generating new data from learned patterns in existing data

What stage of the project involves defining the problem and setting objectives in a Generative AI project?
A) Deployment
B) Development
C) Planning
D) Evaluation
Answer: C) Planning

In which stage of the lifecycle of a Generative AI project does model training take place?
A) Deployment
B) Development
C) Planning
D) Evaluation
Answer: B) Development

How is Generative AI utilized in software applications?
A) By analyzing user behavior

B) By generating new content or data
C) By optimizing existing algorithms
D) By deleting redundant code
Answer: B) By generating new content or data

How can Generative AI impact businesses?
A) By reducing operational costs
B) By increasing employee turnover
C) By decreasing customer satisfaction
D) By limiting innovation
Answer: A) By reducing operational costs

What distinguishes GPTs (Generative Pre-trained Transformers) from search engines?
A) GPTs generate data while search engines retrieve existing data
B) Search engines are more efficient
C) GPTs rely solely on user input
D) Search engines cannot understand natural language
Answer: A) GPTs generate data while search engines retrieve existing data

What is an important aspect of Ethical and Responsible AI?
A) Maximizing profits at any cost
B) Prioritizing convenience over privacy
C) Ensuring fairness and transparency
D) Ignoring potential biases in AI systems
Answer: C) Ensuring fairness and transparency

Which of the following is a type of Generative AI model used for generating realistic images?
A) GANs
B) LSTM
C) SVM
D) PCA
Answer: A) GANs

What is the primary purpose of Generative AI in the field of medicine?
A) Predicting patient diagnoses
B) Generating synthetic data for research
C) Monitoring patient vital signs
D) Optimizing hospital operations
Answer: B) Generating synthetic data for research

Which phase of a Generative AI project involves selecting the appropriate data sources?
A) Evaluation
B) Planning
C) Development
D) Deployment
Answer: B) Planning

How does Generative AI contribute to creative industries like art and music?

A) By analyzing existing works
B) By automating the creation process
C) By providing critique and feedback
D) By deleting outdated pieces
Answer: B) By automating the creation process

Which of the following is not a type of Generative AI model?
A) CNNs
B) GANs
C) RNNs
D) ANN
Answer: D) ANN (Artificial Neural Networks)

What role does Generative AI play in natural language processing tasks?
A) Classifying text data
B) Generating text responses
C) Deleting irrelevant documents
D) Summarizing text content
Answer: B) Generating text responses

What is a potential ethical concern related to Generative AI?
A) Improving data privacy
B) Ensuring model transparency
C) Generating biased content
D) Promoting diversity and inclusion
Answer: C) Generating biased content

Which type of Generative AI model is commonly used for image-to-image translation tasks?
A) RNNs
B) CNNs
C) VAEs
D) GANs
Answer: D) GANs

What is one way Generative AI can be applied in the gaming industry?
A) Enhancing player experiences through realistic simulations
B) Deleting outdated game files
C) Analyzing player behavior for marketing purposes
D) Limiting innovation in game design
Answer: A) Enhancing player experiences through realistic simulations

How does Generative AI contribute to data augmentation in machine learning?
A) By deleting irrelevant data points
B) By generating synthetic data to increase dataset size
C) By summarizing data for easier analysis
D) By optimizing existing data structures
Answer: B) By generating synthetic data to increase dataset size

Which type of Generative AI model is suitable for generating new human faces?
A) RNNs
B) CNNs
C) GANs
D) VAEs
Answer: C) GANs

In which phase of a Generative AI project is the model performance evaluated?
A) Planning
B) Development
C) Evaluation
D) Deployment
Answer: C) Evaluation

What role does Generative AI play in the automotive industry?
A) Optimizing supply chain logistics
B) Generating synthetic sensor data for testing autonomous vehicles
C) Deleting outdated vehicle designs
D) Analyzing consumer preferences
Answer: B) Generating synthetic sensor data for testing autonomous vehicles

Which of the following is a potential societal impact of Generative AI?
A) Decreasing unemployment rates
B) Increasing income inequality
C) Promoting environmental sustainability
D) Limiting technological advancements
Answer: B) Increasing income inequality

What distinguishes Variational Autoencoders (VAEs) from other Generative AI models?
A) VAEs are primarily used for image classification
B) VAEs are trained using unsupervised learning techniques
C) VAEs cannot generate new data
D) VAEs are not suitable for text generation tasks
Answer: B) VAEs are trained using unsupervised learning techniques

How can Generative AI be used to enhance cybersecurity?
A) By deleting malicious files
B) By generating synthetic attack data for training defensive systems
C) By analyzing network traffic
D) By limiting access to sensitive information
Answer: B) By generating synthetic attack data for training defensive systems

What is one application of Generative AI in the fashion industry?
A) Deleting outdated fashion trends
B) Generating synthetic fabric samples
C) Analyzing consumer shopping habits
D) Optimizing manufacturing processes
Answer: B) Generating synthetic fabric samples

Which of the following is an ethical consideration when deploying Generative AI systems?
A) Ensuring data privacy and security
B) Maximizing profits without regard for societal impact
C) Deleting unused data
D) Ignoring potential biases in the generated content
Answer: A) Ensuring data privacy and security

How does Generative AI contribute to content creation in marketing?
A) By analyzing competitor strategies
B) By generating personalized advertisements
C) By deleting outdated marketing campaigns
D) By summarizing customer feedback
Answer: B) By generating personalized advertisements

What is one way to mitigate potential biases in Generative AI systems?
A) Deleting all generated content
B) Ignoring user feedback
C) Ensuring diverse and representative training data
D) Promoting exclusivity in content generation
Answer: C) Ensuring diverse and representative training data

What is the first phase in the lifecycle of a Generative AI project?
A) Development
B) Evaluation
C) Planning
D) Deployment
Answer: C) Planning

During the planning phase of a Generative AI project, what is typically defined?
A) The training dataset
B) The problem statement and project objectives
C) The deployment strategy
D) The model architecture
Answer: B) The problem statement and project objectives

What is the primary focus of the development phase in a Generative AI project?
A) Collecting data
B) Training the model
C) Deploying the model
D) Evaluating model performance
Answer: B) Training the model

Which phase of the Generative AI project lifecycle involves fine-tuning the model based on feedback?
A) Planning
B) Development
C) Evaluation
D) Deployment

Answer: C) Evaluation

What is the final phase in the lifecycle of a Generative AI project?
A) Planning
B) Development
C) Evaluation
D) Deployment
Answer: D) Deployment

What is one of the key considerations during the deployment phase of a Generative AI project?
A) Training the model
B) Evaluating model performance
C) Scaling the model
D) Planning the next project
Answer: C) Scaling the model

Which of the following is a crucial aspect of Ethical and Responsible AI?
A) Maximizing profits at any cost
B) Prioritizing convenience over privacy
C) Ensuring fairness and transparency
D) Ignoring potential biases in AI systems
Answer: C) Ensuring fairness and transparency

What is one ethical concern related to Generative AI?
A) Increasing model accuracy
B) Decreasing computational costs
C) Generating biased content
D) Maximizing data collection
Answer: C) Generating biased content

How can organizations address ethical concerns in Generative AI projects?
A) By prioritizing speed over accuracy
B) By ignoring stakeholder feedback
C) By implementing ethical guidelines and oversight
D) By limiting transparency in model development
Answer: C) By implementing ethical guidelines and oversight

Which phase of the Generative AI project lifecycle involves analyzing the societal impact of the generated content?
A) Planning
B) Development
C) Evaluation
D) Deployment
Answer: C) Evaluation

UNIT- 2

What is the primary goal of Prompt Engineering in computing?
A) To automate coding tasks
B) To transform how users interact with AI models
C) To develop faster processors
D) To increase memory storage capacity
Answer: B) To transform how users interact with AI models

Which framework is commonly used for structuring Prompt Engineering methodologies?
A) ACHIEVE
B) SCRUM
C) AGILE
D) WATERFALL
Answer: A) ACHIEVE

What does the "A" stand for in the ACHIEVE framework for Prompt Engineering?
A) Adapt
B) Analyze
C) Assess
D) Apply
Answer: C) Assess

In the context of Prompt Engineering, what does the "V" represent in the ACHIEVE framework?
A) Validate
B) Visualize
C) Verify
D) Value
Answer: D) Value

What is the significance of Large Language Models (LLMs) in Prompt Engineering?
A) They provide a standardized framework for prompt development
B) They serve as the primary infrastructure for prompt generation
C) They enable the generation of high-quality prompts through fine-tuning
D) They optimize computational resources for prompt engineering
Answer: C) They enable the generation of high-quality prompts through fine-tuning

Which of the following is a fundamental aspect of prompts?
A) Speed
B) Accuracy
C) Memory
D) Graphics
Answer: B) Accuracy

What role do prompt patterns play in Prompt Engineering?
A) They provide a visual representation of prompts
B) They help identify common structures in prompts
C) They determine the processing speed of prompts
D) They are irrelevant in the prompt generation process
Answer: B) They help identify common structures in prompts

What is prompt tuning aimed at achieving in Prompt Engineering?
A) Decreasing model complexity
B) Enhancing model performance
C) Reducing data storage requirements
D) Limiting prompt variability
Answer: B) Enhancing model performance

Which of the following is NOT a typical step in prompt engineering?
A) Analyzing user preferences
B) Fine-tuning the model
C) Generating random prompts
D) Assessing prompt effectiveness
Answer: C) Generating random prompts

In the context of Prompt Engineering, what does prompt adaptation involve?
A) Modifying prompts based on user feedback
B) Automating the prompt generation process
C) Deleting outdated prompts
D) Optimizing prompt storage
Answer: A) Modifying prompts based on user feedback

How does the ACHIEVE framework contribute to Prompt Engineering?
A) By providing guidelines for prompt visualization
B) By establishing a structured approach to prompt development
C) By automating prompt generation processes
D) By prioritizing prompt speed over accuracy
Answer: B) By establishing a structured approach to prompt development

What distinguishes Prompt Engineering from traditional programming methodologies?
A) Prompt Engineering focuses solely on hardware development
B) Prompt Engineering utilizes Large Language Models for prompt generation
C) Prompt Engineering excludes user feedback in the development process
D) Prompt Engineering does not involve any form of optimization
Answer: B) Prompt Engineering utilizes Large Language Models for prompt generation

What is the purpose of prompt visualization in Prompt Engineering?
A) To decrease model performance
B) To assess prompt effectiveness
C) To limit user interaction
D) To increase memory storage

Answer: B) To assess prompt effectiveness

How does prompt assessment contribute to the ACHIEVE framework?
A) By optimizing hardware resources
B) By evaluating prompt accuracy and relevance
C) By deleting outdated prompts
D) By minimizing prompt variability
Answer: B) By evaluating prompt accuracy and relevance

What is the primary focus of prompt verification in Prompt Engineering?
A) Ensuring prompt diversity
B) Evaluating prompt structure
C) Enhancing model performance
D) Assessing prompt effectiveness
Answer: B) Evaluating prompt structure

What does prompt iteration involve in the context of Prompt Engineering?
A) Generating random prompts
B) Fine-tuning the model based on user feedback
C) Deleting outdated prompts
D) Optimizing prompt storage
Answer: B) Fine-tuning the model based on user feedback

Which aspect of prompt engineering does prompt refinement primarily address?
A) Enhancing model performance
B) Deleting irrelevant prompts
C) Limiting prompt variability
D) Reducing hardware complexity
Answer: A) Enhancing model performance

How does prompt engineering contribute to AI ethics and responsible AI development?
A) By prioritizing speed over accuracy
B) By ignoring user feedback
C) By optimizing prompt generation processes
D) By considering ethical implications in prompt development
Answer: D) By considering ethical implications in prompt development

What is the significance of prompt coherence in Prompt Engineering?
A) It ensures prompt diversity
B) It evaluates prompt effectiveness
C) It assesses prompt structure
D) It maintains logical consistency in prompts
Answer: D) It maintains logical consistency in prompts

What role does prompt structuring play in Prompt Engineering?
A) It ensures prompt diversity
B) It assesses prompt effectiveness
C) It evaluates prompt coherence

D) It organizes prompts in a logical manner
Answer: D) It organizes prompts in a logical manner

What is the primary objective of the question refinement pattern?
A) To make questions more complex
B) To simplify questions for better understanding
C) To randomize the order of questions
D) To delete irrelevant questions
Answer: B) To simplify questions for better understanding

Which pattern focuses on ensuring that questions align with the cognitive abilities of the intended audience?
A) Question refinement pattern
B) Cognitive verifier pattern
C) Audience persona pattern
D) Flipped interaction pattern
Answer: B) Cognitive verifier pattern

The audience persona pattern involves:
A) Randomizing audience characteristics
B) Tailoring questions based on user preferences
C) Deleting questions without considering the audience
D) Ignoring audience feedback
Answer: B) Tailoring questions based on user preferences

What is the primary aim of the flipped interaction pattern?
A) To maintain the existing user-system interaction flow
B) To complicate the user-system interaction
C) To simplify the user-system interaction
D) To reverse the typical roles of the user and the system
Answer: D) To reverse the typical roles of the user and the system

In the context of the question refinement pattern, what does "refinement" refer to?
A) Adding more questions to the set
B) Deleting questions deemed irrelevant
C) Simplifying and improving the quality of questions
D) Increasing the complexity of questions
Answer: C) Simplifying and improving the quality of questions

The cognitive verifier pattern aims to ensure that questions are:
A) Within the system's cognitive capabilities
B) Completely random
C) Within the audience's cognitive capabilities
D) Ignored by the audience
Answer: C) Within the audience's cognitive capabilities

How does the audience persona pattern contribute to the quality of questions?
A) By randomizing audience characteristics
B) By tailoring questions to specific user demographics
C) By deleting audience feedback
D) By ignoring user preferences
Answer: B) By tailoring questions to specific user demographics

What does the flipped interaction pattern aim to achieve regarding user engagement?
A) Decrease user engagement
B) Maintain the status quo in user engagement
C) Increase user engagement
D) Randomize user engagement
Answer: C) Increase user engagement

What aspect of questions does the question refinement pattern primarily address?
A) The complexity of questions
B) The length of questions
C) The relevance of questions
D) The timing of questions
Answer: A) The complexity of questions

Which pattern ensures that questions are tailored to specific user demographics and characteristics?
A) Question refinement pattern
B) Cognitive verifier pattern
C) Audience persona pattern
D) Flipped interaction pattern
Answer: C) Audience persona pattern

In the flipped interaction pattern, what role does the user typically assume?
A) Answering questions
B) Asking questions
C) Providing feedback
D) Ignoring prompts
Answer: B) Asking questions

How does the cognitive verifier pattern contribute to the overall quality of questions?
A) By confirming that questions are within the audience's cognitive capabilities
B) By introducing randomness into question generation
C) By increasing the difficulty of questions
D) By ignoring audience feedback
Answer: A) By confirming that questions are within the audience's cognitive capabilities

What is the primary aim of the question refinement pattern?
A) To make questions more challenging
B) To simplify and improve the quality of questions
C) To delete irrelevant questions
D) To randomize the order of questions
Answer: B) To simplify and improve the quality of questions

The audience persona pattern involves:
A) Deleting questions randomly
B) Generating questions without considering the audience
C) Creating detailed profiles of potential users
D) Ignoring user feedback
Answer: C) Creating detailed profiles of potential users

What is the primary purpose of the flipped interaction pattern?
A) To maintain the existing user-system interaction flow
B) To reverse the typical roles of the user and the system
C) To simplify the user-system interaction
D) To complicate the user-system interaction
Answer: B) To reverse the typical roles of the user and the system

How does the question refinement pattern contribute to the overall question quality?
A) By adding complexity to questions
B) By simplifying and improving the clarity of questions
C) By deleting relevant questions
D) By randomizing question order
Answer: B) By simplifying and improving the clarity of questions

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Answer: C) Simplifying and improving the quality of questions

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C) By deleting audience feedback
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Answer: B) By tailoring questions to specific user demographics

UNIT- 3

What is the primary objective of the question refinement pattern?
A) To make questions more complex
B) To simplify questions for better understanding
C) To randomize the order of questions
D) To delete irrelevant questions
Answer: B) To simplify questions for better understanding

Which pattern focuses on ensuring that questions align with the cognitive abilities of the intended audience?
A) Question refinement pattern
B) Cognitive verifier pattern
C) Audience persona pattern
D) Flipped interaction pattern
Answer: B) Cognitive verifier pattern

The audience persona pattern involves:
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Combining Patterns in AI refers to:
A) Randomly selecting patterns for question generation
B) Integrating multiple patterns to enhance question generation
C) Deleting existing patterns for simplicity
D) Ignoring patterns altogether
Answer: B) Integrating multiple patterns to enhance question generation

The Expansion patterns aim to:
A) Reduce the scope of generated questions
B) Limit the variety of question types
C) Enhance question diversity and complexity
D) Delete irrelevant questions
Answer: C) Enhance question diversity and complexity

What is the primary purpose of the Menu Action Patterns?
A) Simplifying user interactions by offering predefined choices
B) Generating random actions without user input
C) Ignoring user preferences
D) Deleting menu options randomly
Answer: A) Simplifying user interactions by offering predefined choices

The Check List Pattern involves:
A) Randomly generating items without a checklist
B) Creating a list of items that need to be checked off
C) Ignoring the checklist entirely
D) Deleting items from the checklist
Answer: B) Creating a list of items that need to be checked off

What does the Tail Generation Pattern focus on?
A) Generating questions without tailoring to user preferences
B) Creating questions based on recent user interactions
C) Ignoring user feedback
D) Deleting the last part of generated content
Answer: B) Creating questions based on recent user interactions

The Semantic Filter Pattern aims to:
A) Remove semantic meaning from generated content
B) Enhance the semantic coherence and relevance of generated content
C) Randomize semantic elements in generated content
D) Delete semantic content randomly
Answer: B) Enhance the semantic coherence and relevance of generated content

Combining Patterns in AI involves:
A) Simplifying the question generation process
B) Utilizing only one pattern for question generation
C) Integrating multiple patterns to improve question quality
D) Deleting patterns for efficiency

Answer: C) Integrating multiple patterns to improve question quality

The Expansion patterns aim to:
A) Limit question diversity and complexity
B) Increase the scope of generated questions
C) Decrease question variety
D) Delete irrelevant patterns
Answer: B) Increase the scope of generated questions

What is the primary purpose of the Menu Action Patterns?
A) Complicating user interactions by offering predefined choices
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C) Simplifying user interactions by offering predefined choices
D) Deleting menu options randomly
Answer: C) Simplifying user interactions by offering predefined choices

The Check List Pattern involves:
A) Creating a list of items that need to be ignored
B) Generating random items without a checklist
C) Creating a list of items that need to be checked off
D) Deleting items from the checklist randomly
Answer: C) Creating a list of items that need to be checked off

What does the Tail Generation Pattern focus on?
A) Generating questions without considering user preferences
B) Creating questions based on historical user interactions
C) Ignoring recent user feedback
D) Deleting the first part of generated content
Answer: B) Creating questions based on historical user interactions

The Semantic Filter Pattern aims to:
A) Remove semantic coherence from generated content
B) Enhance the randomness of generated content
C) Increase the semantic irrelevance of generated content
D) Enhance the semantic coherence and relevance of generated content
Answer: D) Enhance the semantic coherence and relevance of generated content

Combining Patterns in AI involves:
A) Using a single pattern exclusively for question generation
B) Integrating multiple patterns to improve question diversity and quality
C) Ignoring patterns for question generation
D) Deleting patterns randomly
Answer: B) Integrating multiple patterns to improve question diversity and quality

The Expansion patterns aim to:
A) Decrease the scope of generated questions
B) Limit question diversity and complexity
C) Enhance question variety and complexity

D) Delete irrelevant patterns
Answer: C) Enhance question variety and complexity

What is the primary purpose of the Menu Action Patterns?
A) Generating random actions without user input
B) Simplifying user interactions by offering predefined choices
C) Complicating user interactions by offering undefined choices
D) Deleting menu options randomly
Answer: B) Simplifying user interactions by offering predefined choices

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