

Generative AI Literacy

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Generative AI Literacy - Modules

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Introduction to Generative AI

1) Generative AI can easily handle _____ as it can manage new and unseen scenarios.

malicious act

decision-making

image creation

text creation

2) How does Generative AI help in changing work and business on several levels? (Select all that apply.)

By providing accurate content

By providing 24/7 customer service

By creating more effective advertising & marketing content

By providing accurate business decisions

3) Which of the following Generative AI system was specially trained for Code Generation?

ChatGPT 3

ChatGPT 4

GitHub Copilot

4) What can be the potential solution for overcoming biases in Generative AI Models? (Select all that apply.)

Implementing human-in-the-loop systems to ensure fairness and maintain accountability

By employing diverse and representative training Data to minimise inherent biases

By establishing clear guidelines & policies for responsible AI use

By doing regular audit and monitor AI systems to ensure fairness and maintain accountability

5) Why Generative AI is emerging on a massive scale? (Select all that apply.)

More mature Neural Networking techniques have emerged

Time based and linguistic limitations

Models and Compute Power are now accessible

How Small Language Models (SLMs) Work

1) What is the primary advantage of Small Language Models (SLMs) over Large Language Models (LLMs)?

- They have a broader range of applications.
- They are resource-intensive.
- They are designed for specific use cases.
- They process data exclusively on user devices.

2) _____ technique is used to reduce the size and resource requirements of SLMs.

- Knowledge distillation
- Data augmentation
- Hyperparameter tuning
- Data inflation

3) Which applications are well-suited for SLMs? (Select all that apply.)

Text generation and summarization

Answering complex questions

Language translation

High-end gaming

4) Select one of the ways in which SLMs contribute to privacy-preserving AI.

By relying more on cloud-based solutions

By enabling on-device processing

By increasing data transfer rates

By requiring extensive data storage

5) Small Language Models (SLMs) are less efficient in real-world applications compared to Large Language Models (LLMs).

true

false

Foundation Models: Working and Risks

1) When leveraging Foundation Models for AI development projects, what is the first action you should take?

- Model Selection
- Hyperparameter Tuning

- Data Collection and Preprocessing

- Model Evaluation

2) What potential risk is associated with the fine-tuning of Foundation Models on sensitive datasets?

- Bias reduction

- Privacy concerns

- Transparency improvement
- Information verification

3) Foundation Models promise a future where AI assistants are like human support, creative arts are co-created by humans and machines, and education becomes highly _____.

Personalized

Automated

Integrated

Standardized

4) Which stage in the deployment of Foundation Models for AI development involves fine-tuning parameters for optimal performance?

Data preprocessing

Model selection

Model training

Evaluation

5) Which factors are crucial for selecting a Foundation Model for AI text generation? (Select all that apply.)

Model age

Deployment options

Performance metrics

Model training time

Prompt Engineering

1) What is the significance of Prompt Engineering in the development of AI?

- Prompt Engineering is a recent concept that emerged with the rise of AI systems.
- Prompt Engineering is a discipline that focuses on refining data structures only.
- Prompt Engineering plays a minor role in the field of AI development.
- Prompt Engineering facilitates effective communication with AI systems for desired outputs.

2) Which of the following statements is true regarding the use of Generative AI in art?

- Precision in Prompt Engineering is only important for data analysis, not for art.
- Artists can only specify the physical aspects of an image when using text-to-image Generative AI.
- Artists can guide generative AI with concepts such as style, mood, theme, and tone.
- Professional artists are less likely than non-artists to spend time refining prompts.

3) Prompt Engineering can enhance user engagement by providing real-time feedback on user inputs.

true

false

4) In which of the following processes the prompts are compared against each other?

User feedback

A/B testing

Metric measurement

Data analysis

5) Which of the following is a best practice for Prompt Engineering? (Select all that apply.)

Use machine translation systems

Flexibility in prompt design

Leverage data patterns

Use of templates

Key Elements of Prompts

1) An effective Prompt should have a balance of detailed context and specified constraints.

true

false

2) Which approach will yield better results when working on an elaborate script-writing project for product marketing?

A Prompt like "write a script for product marketing video"

A series of Prompts that break up the writing process into smaller tasks

A Prompt that says to write a script for with a specific product name

Rephrasing previously used Prompt based on the requirement

3) What type of languages and terminologies does AI understand better? (Select all that apply).

Natural language

Complex phrases

Specific terms

Technical terms

4) Using the correct _____ and format helps in creating an excellent Prompt. (Select all that apply).

Grammar

Context

Command

Example

5) What are the key responsibilities of AI Prompt Engineers?

Staying up to date with trending Prompts in AI

Creating uses of AI tools and algorithms in workflows

Developing AI chatbots & image generators

Optimizing text Prompts based on feedback

Prompt Engineering: Parameters and Use Cases

1) What is the benefit of using metaphors while developing a prompt for ChatGPT?

It makes them more illustrative

It makes them more relatable

It makes easier to set the purpose

It makes them more technical

2) When designing a prompt, which of the following parameters contribute to the relevance and accuracy of the generated output?

Format

Tone

Act as

Context

3) What is few shot prompting useful for?

- Simple tasks
- Tasks that require manual interpretation
- Tasks that require a bit of reasoning
- Tasks that require raw data analysis

4) What algorithm is used in LLMs to focus on specific parts of the input text?

- Word embedding
- Deep learning
- Attention mechanisms
- Transformers

5) Which of the following uses of Prompt Engineering involves generating text that simulates a conversation for specific use cases and character types?

- AI art
- Reasoning
- Code generation
- Role-playing

Microsoft Copilot Prompts

1) Which of the following is one of the recommended ways to improve responses from Copilot?

- Use the responses without making adjustments
- Provide clear context and background information
- Always accept the initial response
- Avoid iteration and refinement

2) With Microsoft Copilot in Powerpoint, you can generate a presentation based on a document created in Word.

true

false

3) Which of the following is one of the elements for creating effective prompts when using Microsoft Copilot?

- Length of the prompt
- Font style used
- Number of resources included
- Situational details

4) What is the importance of using effective prompts for Microsoft Copilot?

- It allows Copilot to use simple keywords in the responses.
- It reduces the need for specific context.
- It enhances the AI's ability to understand instructions.
- It minimizes AI's ability to create conversational responses.

5) When using Copilot for security, one can only use pre-defined promptbooks.

- true
- false

Tips and Top ChatGPT Prompts

1) Which of the following is one of the correct steps in crafting effective prompts for ChatGPT?

- Using complex language
- Giving generic instructions
- Structuring the output format randomly
- Stating intentions clearly in the prompt

2) What is the importance of providing sufficient context when creating effective prompts?

- It provides real-time updates by mixing instructions and context.
- It allows the model to complete tasks without considering all possible outcomes.
- It helps the model generate a relevant and accurate output.
- It aids in increasing the number of diverse responses.

3) How do ChatGPT prompts help in drafting emails? (Select all that apply.)

- By exclusively generating tweets and hashtags
- By enhancing the visual presentation of emails

By automatically drafting emails

By adjusting the tone of emails

4) How can you address Hallucinations when using ChatGPT to write an article?

- By asking ChatGPT to generate additional information
- By adding images and graphics to provide accurate instruction
- By manually making the changes to rectify the errors

By using ChatGPT to edit and correct its own mistakes

5) Which of the following prompts should be used in order to create a bar chart representing Sales Data in Excel?

- Prompt: Create a formula to represent Sales Data.
- Prompt: Create a visually appealing bar chart representing the Sales Data.
- Prompt: Clean the Data in all columns and create a bar chart instead.
- Prompt: Summarize the key Sales Data into a chart.

Using Gen AI Effectively: Writing Prompts

1) What is the primary purpose of writing Effective Prompts for AI?

- To emphasize and maximize proficiency in AI algorithms
- To emphasize and maximize the benefits from AI responses
- To emphasize and demonstrate artistic creativity from AI responses

2) Which type of Prompt is characterized by giving the AI specific, straightforward commands?

- Indirect Prompts
- Contextual Prompts
- Direct Prompts
- Creative Prompts

3) Which method allows ChatGPT to write from the point of view of a specific person or profession?

Role Prompting

Identity Preset

Persona Injection

Contextual Crafting

4) Why is Interactive Prompting essential when engaging with ChatGPT?

It helps in confusing the AI.

It encourages one-sentence questions.

It mimics a conversation for better results.

It helps in limiting the AI's responses.

5) _____ don't have any background knowledge or context, so every time you start a new chat, you're starting from a blank page.

Linguistic Learning Mechanisms (LLMs)

Logical Language Models (LLMs)

Large Learning Machines (LLMs)

Large Language Models (LLMs)

ChatGPT for Excel

1) When using ChatGPT for Excel Macros, how can we ensure that the output produced by ChatGPT is accurate?

- By providing general information for Excel Formula
- By specifying set names for reliable and consistent output
- By dividing a complex tasks into multiple smaller tasks
- By running the macros immediately without testing

2) In the process of integrating ChatGPT with Excel, which of the following references should be selected?

- Microsoft Forms 2.0 Object
- Active DS Type Library
- Microsoft Scripting Runtime
- AP Client 1.0 Type Library

3) What are the advantages of using ChatGPT in Excel? (Select all that apply.)

It saves time by automating repetitive tasks.

It increases human creativity and innovation.

It helps in learning new features of Excel.

It always generates reliable and correct outputs.

4) What assistance can ChatGPT provide when using the web-based tool for Excel-related tasks?

ChatGPT can assist in the navigation of web pages containing Excel data.

ChatGPT can generate prompts and code examples for Excel.

ChatGPT can provide solutions to complex programming concepts in Excel.

5) ChatGPT is only a perfect resource to write simple formulas for Excel/Google Sheets and not the intricate ones.

true

false

ChatGPT and Its Impact in Education

1) What are some examples of how ChatGPT has a key role in the future of Education? (Select all that apply.)

Offering assistance with brainstorming

Providing health and fitness tips

Improving creativity

Providing learning materials

2) ChatGPT gives an advantage to students due to its ability to generate texts in around _____.

70 spoken languages

50 spoken languages

95 spoken languages

3) Which of the following is a potential limitation of ChatGPT related to privacy and security?

- ChatGPT can collect and store data of the user
- ChatGPT may provide inaccurate information
- ChatGPT might copy biases from the data trained on
- ChatGPT may lead to over-dependence on technology

4) What is one way in which Educators can use ChatGPT to improve students' writing skills?

- By using it as a reading comprehension tool
- By using it as a writing prompt generator
- By asking it to generate new vocabulary words for students

5) What essential skills can students foster by using ChatGPT for creating multiple essays on one topic/subject?

Critical and Creative Thinking Skills

Time Management and Organization Skills

Interpersonal and Communication Skills

Technical and Programming Skills

ChatGPT and Healthcare

1) How can ChatGPT improve Healthcare systems? (Select all that apply.)

By summarizing patient medical histories

By providing real-time translation of technical terms and medical jargon

By helping doctors in providing medical diagnosis

2) Which of the following is a limitation for Healthcare Content Creators when it comes to using ChatGPT for generating content? (Select all that apply.)

Its answers and information can be wrong or incomplete.

Its knowledge is limited to 2021.

It can understand the content that matters to the target audience.

3) Which of the following is a potential use of ChatGPT in Healthcare?

- Teaching patients how to diagnose their health issues
- Helping patients manage their medications and their side effects
- Providing real-time translation services between doctors and their colleagues

4) How does ChatGPT help with Patient Management? (Select all that apply.)

- By providing reminders for medication intake
- By giving medical advice and diagnosis
- By offering potential side effects of medication

5) How can ChatGPT assist with clinical decision support? (Select all that apply.)

It can flag potential drug interactions.

It can provide relevant clinical guidelines.

It can provide with a preferred Healthcare plan.

Impact of Generative AI

1) According to the Pew Research Center's analysis, which types of jobs are more likely to be impacted by AI, and what is a key characteristic of these jobs?

- Jobs in lower-paying fields where physical labor is required.
- Jobs in higher-paying fields where college education and analytical skills are valuable.
- Jobs in creative industries where innovation and artistic talents are essential.

2) According to the State of IT 2023 Report by Salesforce, what percentage of CIOs believe that Gen AI has gone mainstream?

- 50% of CIOs believe Gen AI has gone mainstream.
- 10% of CIOs believe Gen AI has gone mainstream.
- 90% of CIOs believe Gen AI has gone mainstream.

3) What potential outcome does the introduction of AI technology in the entertainment industry, for writers?

- AI will lead to higher salaries and increased job security for writers.
- Writers will be entirely replaced by AI, leading to unemployment in the industry.
- The writer's role may be divided into multiple smaller positions, possibly resulting in lower pay and job insecurity.

4) How can Gen AI models transform Healthcare? (Select all that apply.)

- By facilitating the development of personalized medicine
- By facilitating accurate diagnosis and treatment of diseases
- By facilitating transportation and logistics within the Healthcare industry

5) According to Gartner's predictions, what is the expected impact of Gen AI on enterprise applications and processes in the near future?

- By 2024, 40% of enterprise applications will incorporate conversational AI.
- By 2024, 90% of humans will engage robocolleagues.
- By 2027, all new applications will be automatically generated by AI without human involvement.

Security Challenges for Generative AI

1) How does Generative AI pose a threat to Security? (Select all that apply.)

It makes Data anonymisation complex

It collects crucial user data

It enables threat intelligence

It enables generation of malicious code

2) What does Inherent Underlying Model risks mean in terms of Security Vulnerabilities associated with Generative AI?

Data leakage and training-data error

Inadequate AI alignment and overreliance on LLM-generated content

Exploitation of unpredictable LLM outputs

3) Which of the following is a tool for Web App Security?

- Synthesia
- Oxolo
- Burp Suite
- Stable Diffusion

4) What are the benefits of using AI in Cybersecurity?

- Generative AI will be used to train AI-enabled security systems
- Generative AI will shift us towards a defensive stance when dealing with threats
- Generative AI will increase the level of ethics while dealing with malware
- Generative AI will be cost-effective for the users

5) Which of the following are the different ways to manage the risks of Generative AI?(Select all that apply)

Using first-party data

Keeping data updated and well-labelled

Using large AI models

Implementing AI generated feedbacks

Key Ethical Concerns of Generative AI

1) What is the main ethical concern related to the truthfulness and accuracy of Generative AI?

Inability to generate creative content

Copyright infringement

Potential fabrication of information

Lack of dynamic capabilities in language models

2) What challenge arises due to the potential amplification of existing biases by Generative AI?

Copyright infringements

Data provenance validation

Unconscious bias in data and models

3) Why is it important for organizations to implement strong data security efforts when using Generative AI?

To increase Generative AI capabilities

To protect any data used as inputs

To minimize environmental impact

To ensure copyright compliance

4) Generative AI tools may occasionally generate offensive, inappropriate, or inaccurate content, known as_____.

Hallucinations

Abnormalities

Malfunctions

Irregularities

5) Why is it important to conduct regular audits of Generative AI systems?

- To increase computational efficiency
- To identify potential biases and ethical issues
- To reduce the need for human oversight
- To maximize creative output and innovation

Claude AI

1) What feature does Claude provide when a user uploads a file and submits it with no instruction?

- Provides detailed annotations for the file
- Summarizes the content of the file
- Offers insights and statistics related to the file
- Formats the file for printing

2) Claude AI allows the user to drag and drop files directly into the text input area or upload them by clicking the attachment button.

- True
- false

3) Claude AI can _____. (Select all that apply.)

- Engage in natural conversation
- Summarize large volumes of text
- Provide educational information
- Generate original music compositions

4) Claude was fine-tuned using human feedback and a process called Constitutional AI.

true

false

5) How can Claude AI enhance business productivity? (Select all that apply.)

By crafting targeted advertisements for various demographics

By managing social media accounts directly

By filing taxes, generating invoices, and managing payroll

By conducting employee performance reviews independently

Agentic AI

1) Which technique enables Agentic AI systems to interact with their environment, receive feedback, and adjust their behaviour to maximize desired outcomes?

- Reinforcement learning
- Supervised learning
- Unsupervised learning
- Deep learning

2) What distinguishes Agentic AI from Traditional AI?

- Its focus on autonomous learning and adaptation.
- Its capacity for domain-specific planning and reasoning.
- Its reliance on supervised learning techniques.
- Its emphasis on unsupervised learning algorithms.

3) Which of the following are advantages of Agentic AI? (Select all that apply.)

Text generation

Adaptable planning

Bioinformatics

Autonomy

4) Which of the following statements best describes the significance of default behaviours in AI systems?

They allow for unrestricted decision-making by AI systems.

They ensure that AI systems operate in alignment with their intended purpose.

They prioritize the elimination of safety requirements.

They promote opacity in AI system operations.

5) Which of the following practices is recommended by companies for the responsible use of Agentic AI?

- Allowing AI to operate without explanations to maintain efficiency.
- Providing human oversight to avoid interference with AI decision-making.
- Testing AI extensively to uncover potential flaws and edge cases.
- Giving AI complete autonomy without any constraints or controls.

Perplexity AI

1) The chatbot Perplexity AI responds to user inquiries by utilising machine learning and Natural Language Processing (NLP).

true

false

2) What is the main function of Perplexity AI, a powerful search engine? (Select all that apply.)

Surfing online websites to generate relevant answers in an understandable language

Creating YouTube videos, Wikipedia articles, and Reddit threads based on user input

Solving computational problems using WolframAlpha exclusively

3) How does Perplexity AI's training technique differ from ChatGPT and Google's Bard?

Perplexity AI utilizes a transformer-based machine learning technique and trains on a diverse range of internet text.

Perplexity AI uses statistical relationships between words and phrases to generate text that is both grammatically correct and semantically meaningful.

Perplexity AI employs a contextually aware response generation approach.

4) What is a specific strength of Google Bard compared to Perplexity AI and ChatGPT?

- Google Bard excels in crafting a broad range of creative content.
- Google Bard is commonly used for operating conversational agents and drafting emails.
- Google Bard excels in tasks involving question answering and language understanding.

5) What is a limitation of Perplexity AI's capabilities?

- Perplexity AI lacks the ability to continually learn and adapt.
- Perplexity AI may struggle with understanding ambiguous queries or questions with multiple interpretations.
- Perplexity AI is incapable of providing accurate answers to complex questions.

DeepSeek AI - OpenSource AI

1) Is DeepSeek-R1 is an Opensource AI- TRUE or FALSE?

True

False

2) Please select the correct DeepSeek AI model?

DeepSeek X5

Grok2

DeepSeek V3

Llama 2

3) Which GPU Chips DeepSeek AI uses?

AMD Radeon HD

Nvidia H800

Nvidia Tesla

T4 Tensor Core

4) The tech-heavy Nasdaq index dropped to what % post DeepSeek AI Launch?

0%

10%

5%

3%

5) Govt of India imposed restriction on DeepSeek AI. TRUE or FALSE?

True

False

Grok 3 Overview

1) Select the wrong option, Elon Mask describes purpose and mission of Grok 3

Where are the aliens?

How to compute linear algebra?

Whats the meaning of Life?

How does the universe end?

2) Grok 3 Uses which GPUs?

AMD's Radeon RX series

NVIDIA's GeForce RTX 4060

AMD Radeon RX 790 XTX

Nvidia H100 GPUs

3) Grok 3 appears to outperform ChatGPT 4.5 in areas requiring technical reasoning, real - time data analysis, and complex problem - solving, particularly in STEM fields, while ChatGPT 4.5 excels in creating masks and natural, intelligent conversations.

True

False

4) Grok 3 AI chatbot is currently available for free to all X users

True

False

5) Grok 3 can't help in Programming by autogenerating Code

True

False

Prompt Engineering With Grok 3

1) What is prompt engineering, and why is it important in AI interactions?

- A technique to generate prompts automatically without user input
- The process of designing and optimizing inputs to improve AI responses
- A method used to train AI models from scratch
- A way to store prompts for future AI interactions

2) How does few-shot prompting differ from zero-shot prompting?

- Few-shot prompting provides multiple examples, while zero-shot provides none
- Few-shot prompting allows AI to ask clarifying questions, zero-shot does not
- Few-shot prompting requires labeled data, zero-shot does not
- Few-shot prompting only works with structured data, zero-shot works with all data

3) What is the purpose of chain-of-thought prompting in enhancing AI responses?

- It forces the AI to generate random responses for variety
- It allows AI to explain reasoning step-by-step for complex problems
- It makes AI generate responses faster by skipping intermediate steps
- It limits the AI to responding only with predefined answers

4) How does tree-of-thought prompting improve problem-solving in AI models?

- It breaks down tasks into structured, branching steps for better decision-making
- It forces AI to memorize all possible answers before responding
- It eliminates multiple response options, making AI responses uniform
- It improves AI's speed by skipping unnecessary calculations

5) What are some common challenges in prompt engineering, and how can they be addressed?

- AI misinterpreting prompts; can be improved by refining and testing prompts
- AI refusing to respond; can be fixed by forcing responses
- AI generating only positive responses; can be solved by avoiding AI altogether
- AI requiring high computation power; can be addressed by reducing word count