## Using Gen Al in Training Design and Development

#### Enhancing Learning Experiences with Artificial Intelligence

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## Objectives:

At the end of this session you will be able to:

- **Define and explain** the concept of **Generative Artificial Intelligence (GenAI)** and its core principles in training design and development.
- Identify and list key benefits of GenAI in enhancing training and development processes, including personalization and efficiency.
- Evaluate and demonstrate the practical applications of GenAI in various training scenarios related to design and development
- Analyze and discuss the challenges and ethical considerations when implementing GenAI in training environments.

## Structure

- Understanding Gen Al
- Application and benefits of GenAl in the ADDIE
- Application of Gen AI in Design and Development
- Overcoming challenges and ethical consideration

### Session 1 Understanding Gen Al

## What is Generative Intelligence?

#### Objective

- **Define** Generative Intelligence and differentiate it from traditional AI based on functionality and application.
- Identify real-world examples of Generative Intelligence and analyze its use across different industries.
- Evaluate the key differences between Generative Intelligence and traditional AI, explaining their impact on AI-driven solutions.

#### Structure

- Key terminologies
- Definition and Basics of Generative AI
- Difference Between Gen AI and Traditional AI
- Examples of Gen AI (e.g., ChatGPT, DALL-E)

## Some terminologies

- A. Artificial Intelligence (AI)
- B. Machine Learning (ML)
- C. Deep learning
- D. Generative Al
- E. Large Language Model (LLM)
- F. Neural networks

- Computing systems inspired by the human brain, consisting of layers of interconnected nodes (neurons) to process data.
- 2. A subset of AI where machines learn from data to improve performance on tasks without explicit programming.
- 3. The simulation of human intelligence by machines to perform tasks like reasoning, learning, and decision-making.
- 4. Al systems that create new content (text, images, music) based on learned patterns from existing data.
- 5. A branch of ML using neural networks with many layers to model complex patterns in large datasets.
- 6. A type of AI model trained on vast amounts of text to understand, generate, and predict human language.

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B. Machine Learning (ML)

- C. Deep learning
- D. Generative Al

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F. Neural networks

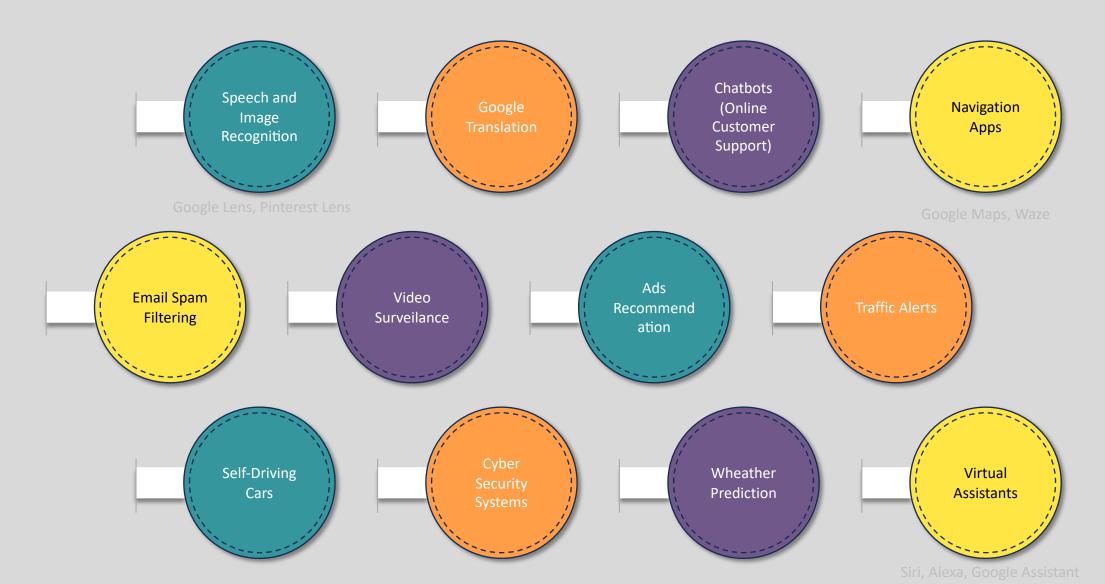
A type of AI model trained on vast amounts of text to understand, generate, and predict human language.

Computing systems inspired by the human brain, consisting of layers of interconnected nodes (neurons) to process data.

Artificial intelligence (AI) and machine learning (ML) have long been transformative forces in business, revolutionizing operations and decision-making.

**THE ROBOTS ARE COMING!** The Future of Jobs in the Age of Automation ANDR OPPENHE

## Examples of GI in action



#### ARTIFICIAL INTELLIGENCE VS MACHINE LEARNING VS DEEP LEARNING



Development of smart systems and machines that can carry out tasks that typically require human intelligence

#### **2** Machine Learning

Creates algorithms that can learn from data and make decisions based on patterns observed Require human intervention when decision is incorrect

#### **3** Deep Learning

Uses an artificial neural network to reach accurate conclusions without human intervention

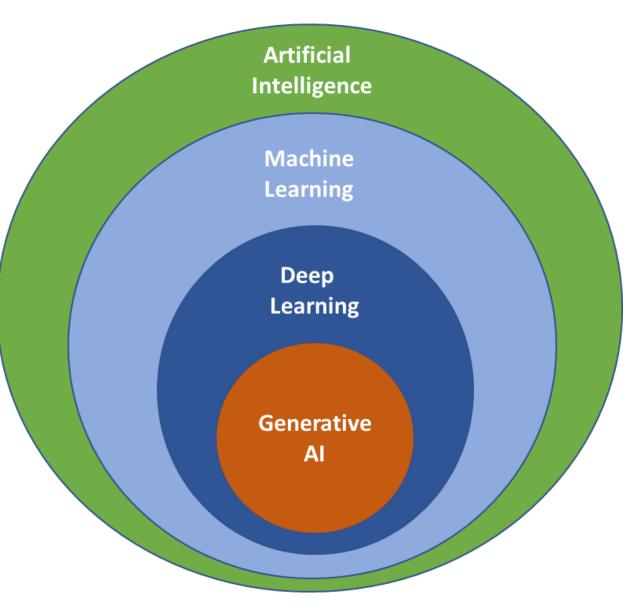
## Generative Intelligence

#### What is Generative AI?

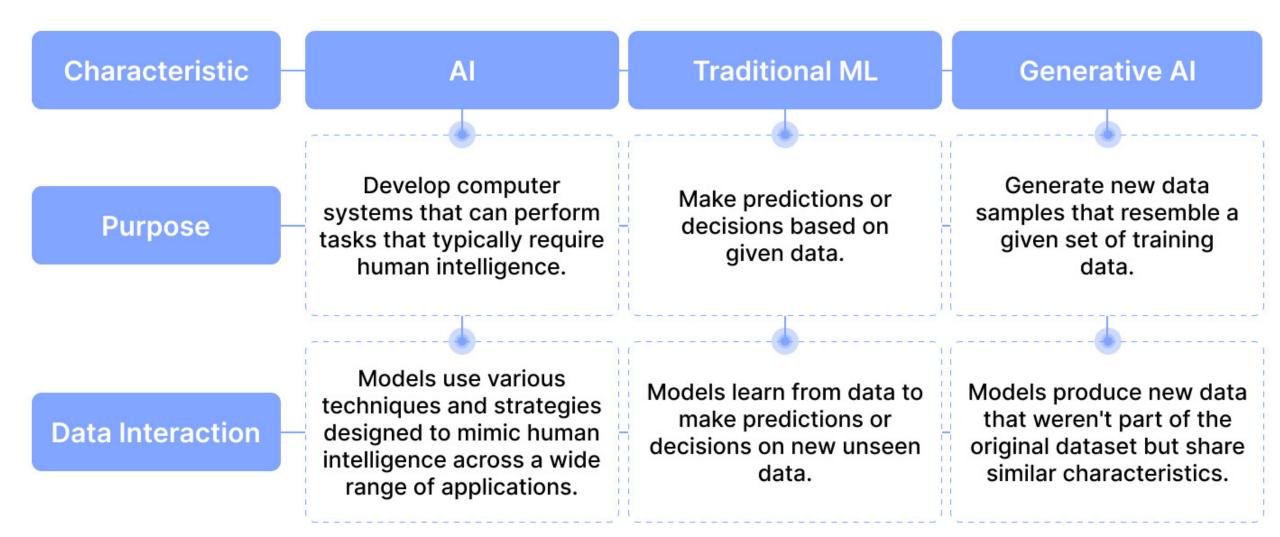
Generative AI (genAI) is a broad label describing any artificial intelligence (AI) that can produce new

- text
- images
- video, or
- audio clips

Technically, this type of AI learns patterns from training data and generates new, unique outputs with the same statistical properties



## Artificial Intelligence vs. Traditional Machine Learning, Generative AI



If you had access to all the experts in the world in any field, how would you leverage their knowledge and experience to enhance your training programs?

ctivit Answer in the charbox



A large language model is a language model notable for its ability to achieve general-purpose language generation and understanding.

## Session 2 The Role of Gen Al in ADDIE

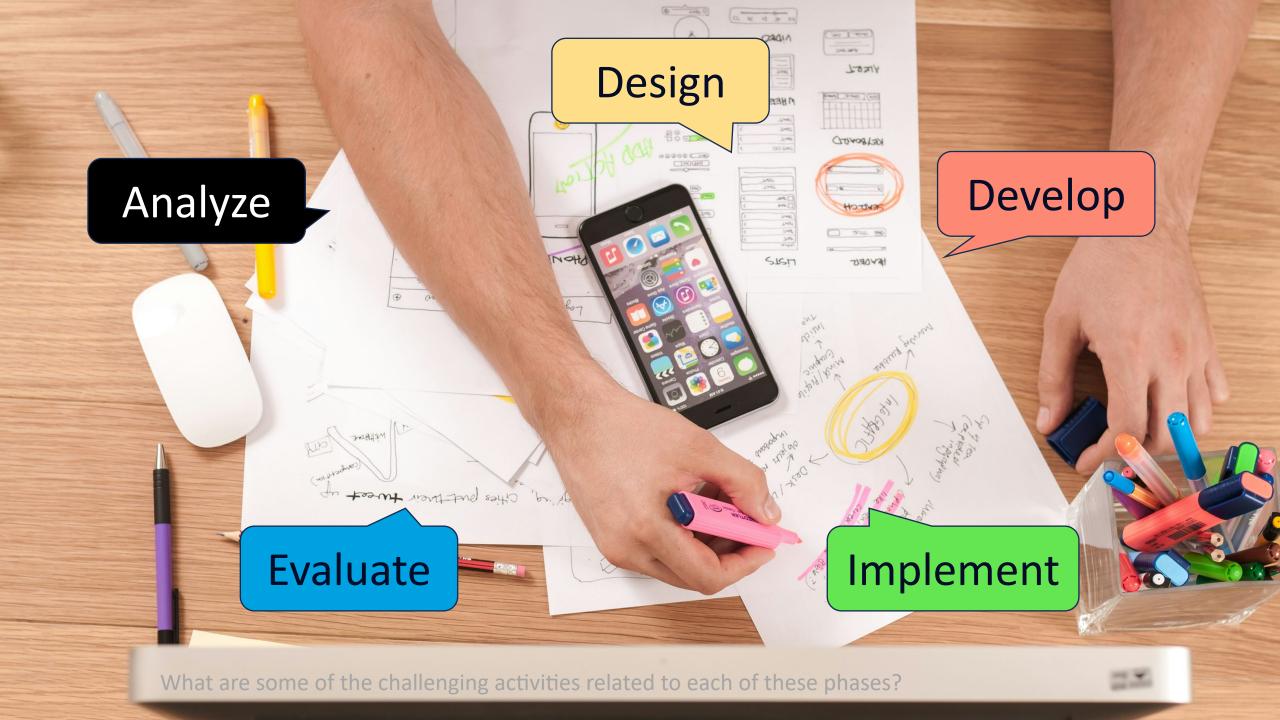
## The Role of Gen Al in ADDIE

#### Objective

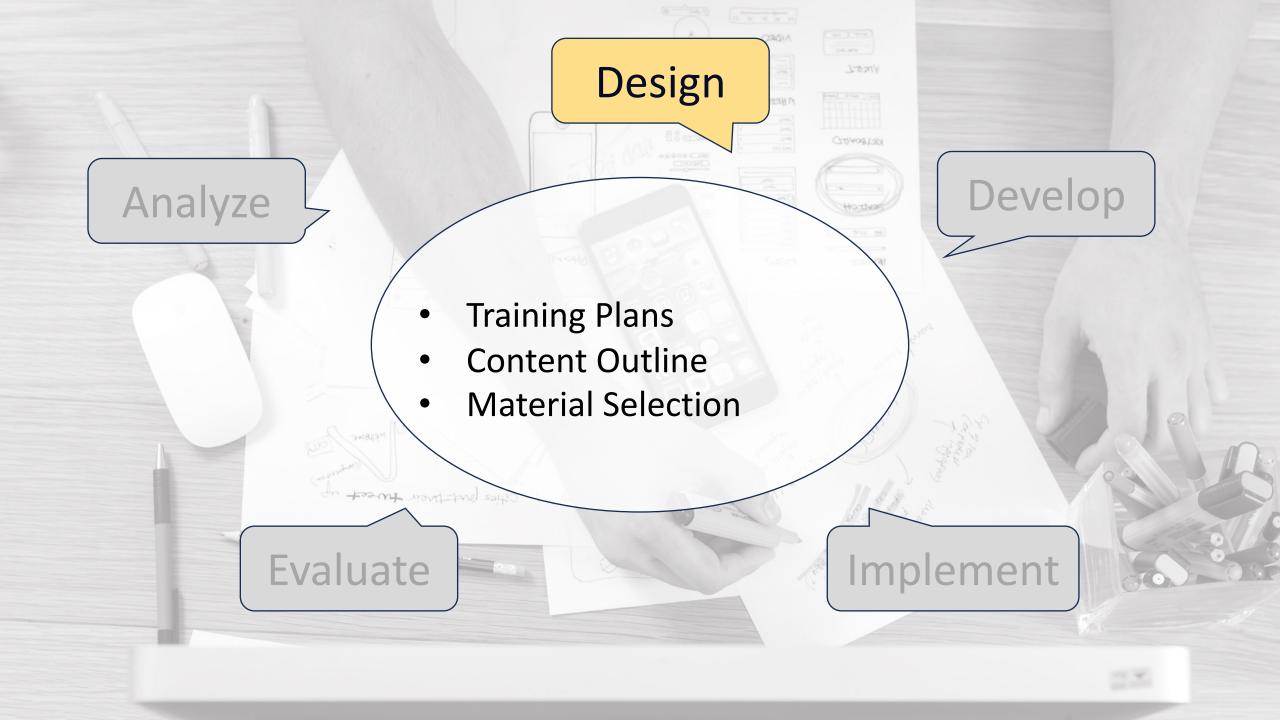
- **Explain** the phases of the ADDIE model and apply Generative AI (GenAI) tools in each phase to enhance the training design and development process.
- Evaluate the key benefits of using GenAl in training and development and demonstrate its impact on improving efficiency and learner engagement.

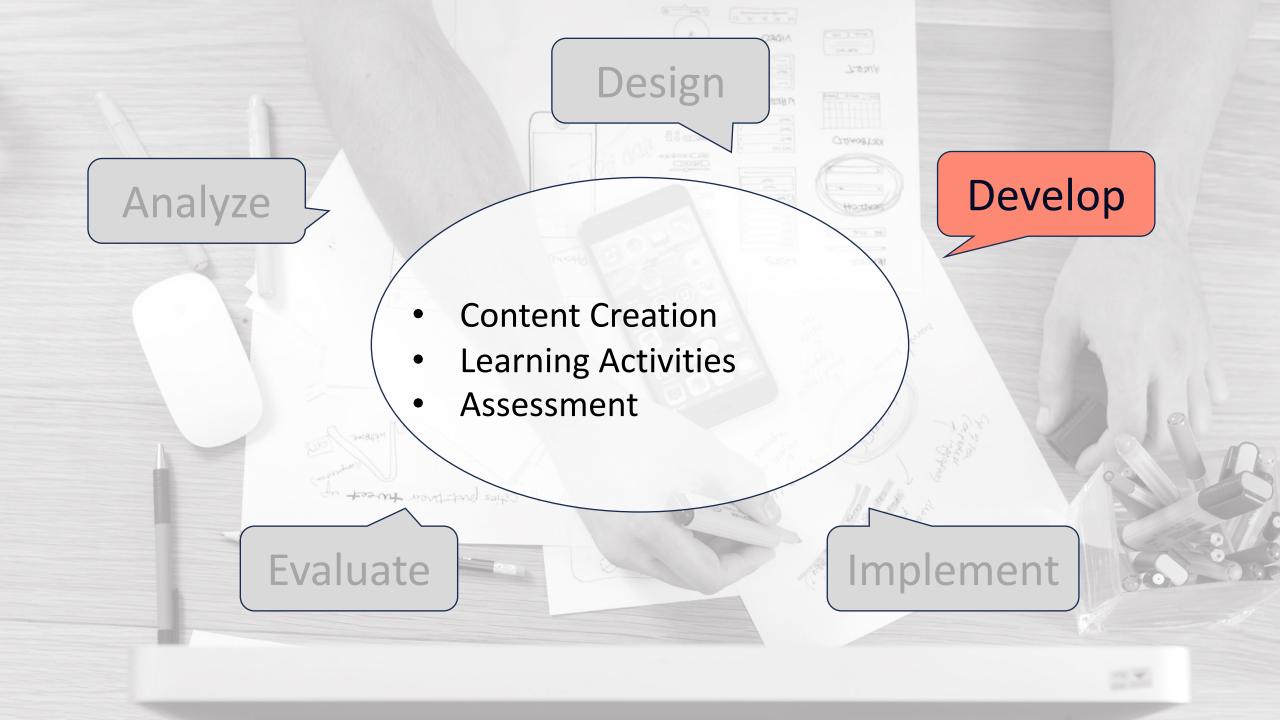
#### Structure

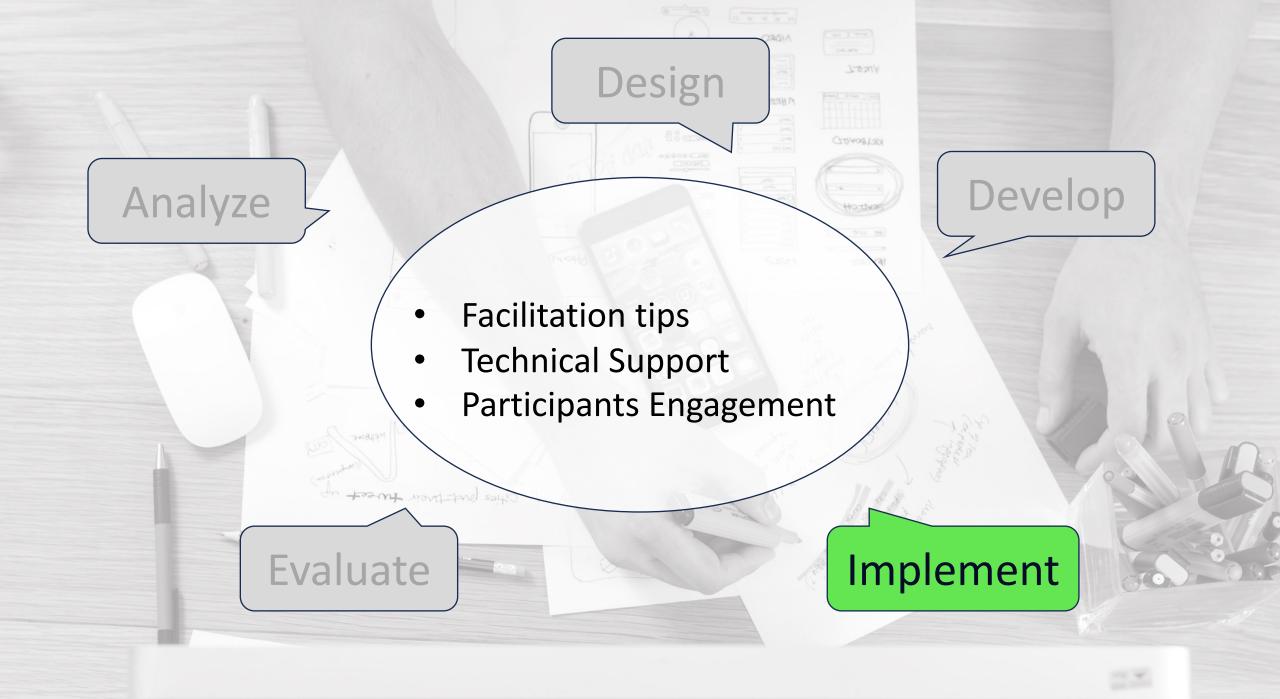
- An overview of the ADDIE cycle and practical applications of GenAI
- Key benefits of using GenAl













Session 3 Application of GenAl in Design and Development

## Application of GenAl in Design and Development

#### Objective

- **Apply** prompt engineering techniques to effectively generate training content and resources using GenAI tools, enhancing instructional design efficiency.
- Evaluate practical examples of GenAl applications in training design and development, and demonstrate their use to improve learning engagement and resource creation.

#### Structure

- Prompt Engineering Basics
- Application Examples
- Explore RP AT RP Tool

- Generate comprehensive <u>lesson plans</u> that outline session structure, activities, and materials for adult learners.
- Formulate clear, <u>measurable learning objectives</u> aligned with adult learning principles.
- Suggest experiential <u>learning methodologies</u> like simulations, roleplaying, or peer learning for the learning environment.
- Create <u>anchoring ideas</u> that connect new content to learners' prior knowledge and experiences.
- Provide tailored teaching tips for engaging adult learners effectively.

- Generate <u>thought-provoking questions</u> that encourage critical thinking and discussion.
- Create <u>anchoring questions</u> to help learners relate personal experiences to the training content.
- Develop <u>multiple-choice questions to assess learners</u>' understanding and application.
- <u>Summarize key points</u> from discussions, activities, and presentations to reinforce learning.
- Generate concise bullet point summaries highlighting essential takeaways for easy reference.

- <u>Create comparison</u> charts or matrices to help learners evaluate different concepts, approaches, or case studies.
- **Organize information** into tables to make complex data easily understandable.
- Facilitate collaborative learning experiences by <u>suggesting group</u> <u>activities</u> and discussion prompts.
- Generate realistic <u>scenarios or case studies</u> for learners to analyze and discuss.
- Encourage practical application of theories through scenario planning and case studies.

- Provide <u>relevant examples</u> from the industry for learners to discuss and relate to during training.
- <u>Tailor examples</u> to learners' professional contexts to make training more applicable.
- Support learners in <u>applying concepts</u> through reflection and synthesis activities.
- Use <u>role-playing</u> to simulate real-world situations learners may encounter in their roles.
- Engage learners by <u>relating training content to their everyday work</u> experiences.

## Prompt Engineering

Prompting

# There is no real magic to writing prompts,

but there are some general guidelines for 'prompting' that seem to help the AI return more useful completions to you.

## Simple Prompt...

I want to make an impressive presentation on branding. I want to ask all the geniuses to help me!

List 10 important books on branding published from 2010-2020. Summarize 7 salient concepts or ideas from these books

## Creativity is an inherent ability that cannot be taught, only developed.

Pearl Zhu

## 10 Notable Branding Books (2010-2020)

- 1."Building a StoryBrand: Clarify Your Message So Customers Will Listen" (2017) by Donald Miller
- 2."Branding In Five and a Half Steps" (2015) by Michael Johnson
- 3."Hello, My Name Is Awesome: How to Create Brand Names That Stick" (2014) by Alexandra Watkins
- **4."Branding for Dummies"** (2012) by Bill Chiaravalle and Barbara Findlay Schenck
- **5."Zag: The Number One Strategy of High-Performance Brands**" (2016) by Marty Neumeier
- 6."Obsessed: Building a Brand People Love from Day One" (2020) by Emily Heyward

## 10 Notable Branding Books (2010-2020)

- 7. "Killing Marketing: How Innovative Businesses Are Turning Marketing Cost into Profit" (2017) by Joe Pulizzi and Robert Rose
- 8."The Brand Gap: How to Bridge the Distance Between Business Strategy and Design" (2010) by Marty Neumeier
- **9."Emotion By Design: Creative Leadership Lessons from a Life at Nike"** (2017) by Greg Hoffman
- **10."Firms of Endearment: How World-Class Companies Profit from Passion and Purpose"** (2014) by Raj Sisodia, David B. Wolfe, and Jag Sheth

## 7 Salient Concepts from These Books:

#### 1. The Power of Storytelling in Branding

("Building a StoryBrand" – Donald Miller)

Brands should position the customer as the hero of a story and themselves as the guide. By using a clear and compelling narrative, companies can connect with their audience on an emotional level, helping customers understand how the brand can solve their problems. Simplified, customer-centric messaging is critical to cutting through the noise.

## 7 Salient Concepts from These Books:

#### 2. Differentiation Through Simplicity

("Zag" – Marty Neumeier)

In a crowded marketplace, the best way to stand out is by "zagging" when others "zig." This means creating a brand strategy that focuses on radical differentiation. Instead of competing head-to-head with similar brands, aim to fill a unique niche by simplifying the brand's message and positioning it in a way that's unmistakably different.

## 7 Salient Concepts from These Books:

## 3. Brand Naming as a Competitive Advantage

("Hello, My Name Is Awesome" – Alexandra Watkins)

A memorable and easy-to-pronounce brand name is a crucial asset. Names should be short, catchy, and distinctive enough to trigger wordof-mouth marketing. The book introduces the "SMILE" and "SCRATCH" test, guiding brands to choose names that evoke positivity (SMILE) and avoid those that may cause confusion or negative connotations (SCRATCH).

## **PROMPT ENGINEERING** FOR NON-TECHIE TEACHERS



#### AN INTRODUCTION TO CHATGPT AND GENERATIVE AI FOR THE CLASSROOM

#### ANTHONY D. NEELY, PH.D.

## UNLOCKING CHATGPT:

Smart and Lucrative Side Hustle Ideas with AI

# The Ultimate Guide to ChatGPT

A beginner's handbook to understanding prompt engineering, the future of artificial intelligence and how to use it effectively



PROMPT PROMPT PROMPT PROMPT AND AND CHATCHING CHATCHING

THE ONLY 3 -

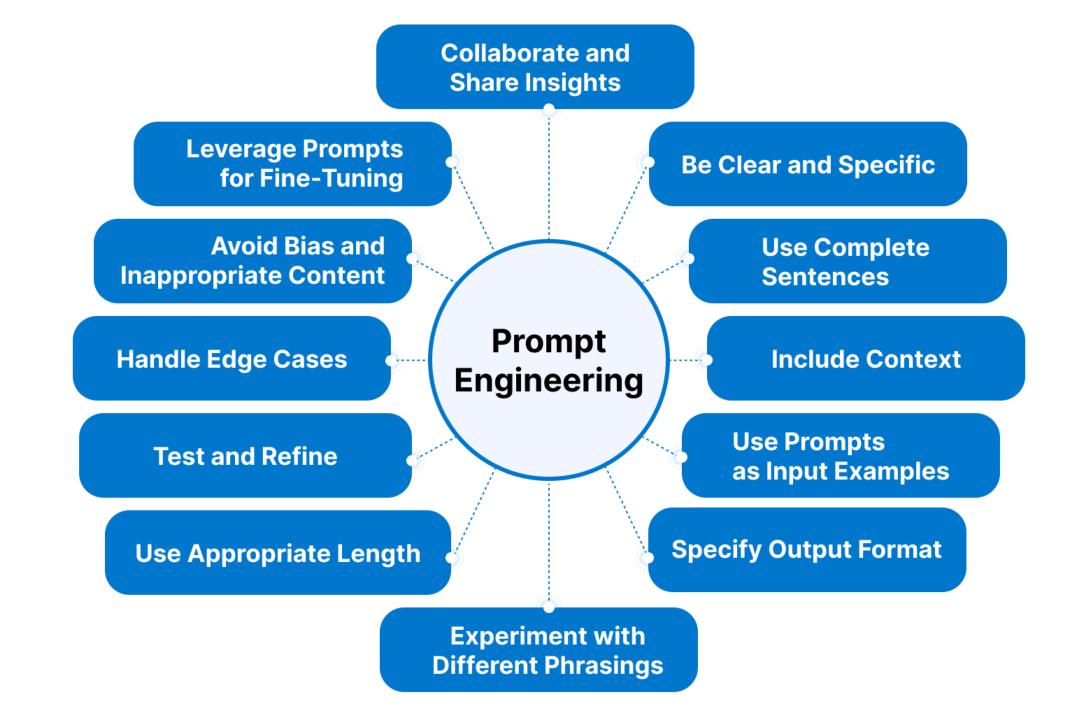
PROMPT TEMPLATES

YOU NEED TO

**PRODUCE CONTENT FAST** 

FOR NONFICTION WRITERS

NICCI PRICE



Real	
Progress	
Always	
Takes	
Reasonable	
Patience	



Requirements

**Parameters** 

## Prompt Engineering- RP AT RP

- Role (act as...)
- Purpose (Why do you need it)
- Audience (Who is the intended audience of the content)
- Task (summary of what the GenAI needs to do)
- Requirements (what the completion needs to include, contain, be, etc)
- Parameters for output (How do you want the output to be)

As an expert on Gen Z education

suggest content for a one-hour presentation

for teachers

on 'Effective Teaching for Generation Z Students' Task

Structure the content suitable for a one-hour PowerPoint presentation. Suggest a starting activity and timeline for each slide.







**Purpose** 

Role

- 1. Starting Activity (5 minutes)
- Activity: Gen Z Icebreaker
- **Objective**: Get teachers to reflect on their interactions with Gen Z students.
- Instructions: Ask the audience to share one word they associate with Gen Z students using a polling app (e.g., Mentimeter or Slido).
- **Discussion**: Display results in real-time, highlighting common perceptions.

### Slide 1: Introduction to Generation Z (5 minutes)

### • Key Points:

- Who is Gen Z? (Born 1997-2012)
- Traits: Digital natives, short attention span, values-driven, and socially conscious.
- The importance of understanding their needs in the classroom.

### Slide 2: Characteristics of Gen Z Learners (7 minutes)

### • Key Points:

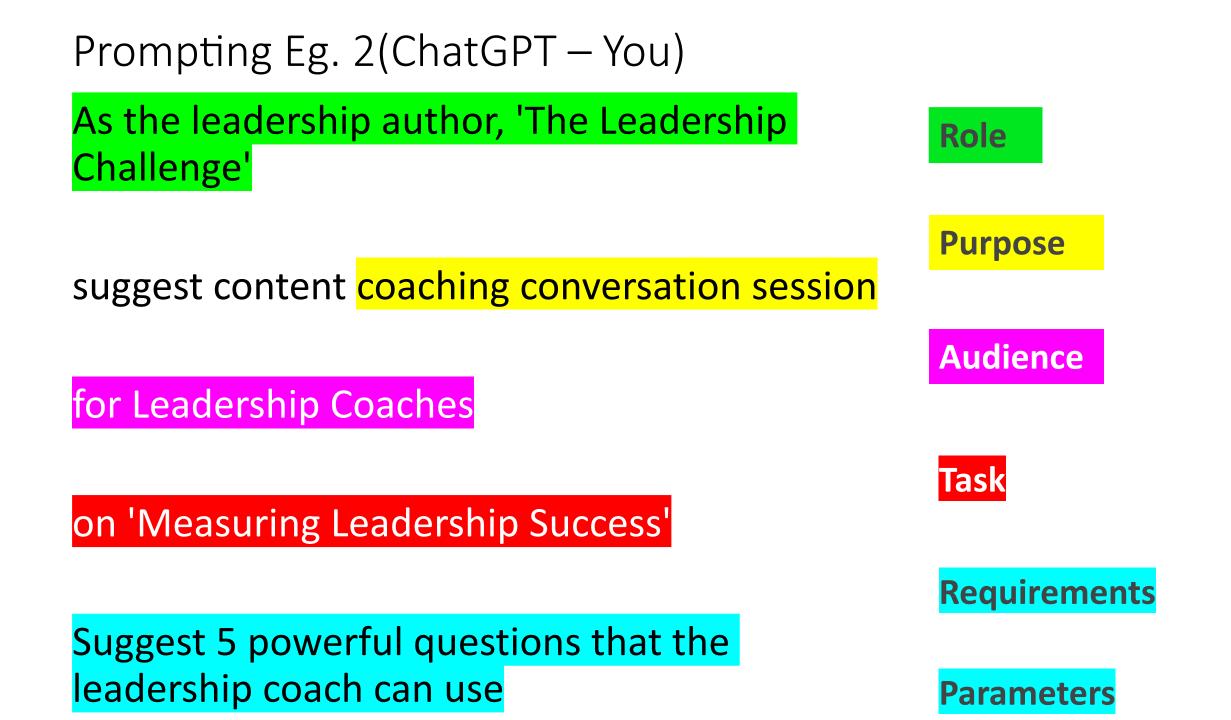
- Always connected: Dependence on technology and social media.
- Visual and hands-on learners: Prefer videos, infographics, and interactive content.
- Multitaskers: Easily distracted but can manage multiple inputs.
- Prefer independence: Desire self-paced learning and autonomy.
- Activity: Quick reflection Ask teachers how they currently adapt to these traits in their teaching

## Setting Learning objectives....

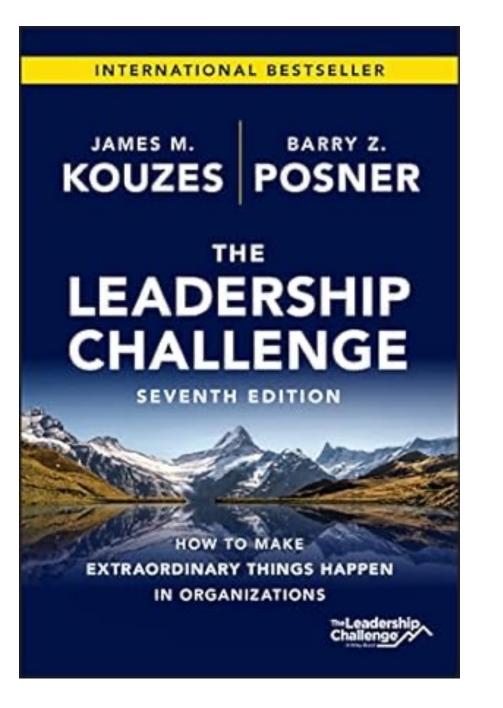
- Identify key characteristics and learning preferences of Generation Z students.
- **Apply** appropriate instructional strategies and engagement techniques tailored to Generation Z's learning needs.
- Evaluate different teaching tools and technologies for their effectiveness in enhancing engagement and learning outcomes for Generation Z.

### Prompting Eg. 1 (ChatGPT – You)

As an expert on Gen Z education suggest content for a one-hour presentation for teachers on 'Effective Teaching for Generation Z Students'. Structure the content suitable for a one-hour PowerPoint presentation. Suggest a starting activity and timeline for each slide.



As the leadership author of the book 'The Leadership Challenge' suggest content coaching conversation session for Leadership Coaches on 'Measuring Leadership Success' Suggest 5 powerful questions that the leadership coach can use



# Coaching Conversation Session: Measuring Leadership Success

### Session Goals

- To provide leadership coaches with tools and insights for measuring leadership effectiveness.
- To facilitate discussions on best practices in assessing leadership success.

# Coaching Conversation Session: Measuring Leadership Success

• Session Structure (60 Minutes)

### **1.Introduction (5 minutes)**

- 1. Welcome and brief overview of the session's focus.
- 2. Share the significance of measuring leadership success in fostering growth and accountability.

### 2.Understanding Leadership Success (10 minutes)

- 1. Discuss how *The Leadership Challenge* defines leadership success as the ability to inspire and enable others to achieve a common goal.
- 2. Explore the various dimensions of leadership success (e.g., influence, impact, team performance, and organizational culture).

# Coaching Conversation Session: Measuring Leadership Success

- Five Powerful Questions for Leadership Coaches
- 1.What are the most significant indicators of success you observe in your clients' leadership practices, and how do you measure them?
  - *Purpose:* To help coaches identify specific success indicators relevant to their coaching context.
- 2.How do you ensure that the feedback you gather is constructive and leads to meaningful growth for your clients?
  - *Purpose:* To encourage reflection on feedback processes and their effectiveness.
- 3.In what ways do you involve your clients' teams in the measurement of leadership success, and how does this impact the overall effectiveness of the leadership?
  - *Purpose:* To explore the benefits of inclusivity and collaboration in measuring leadership.

## 4. How do you align your measurement strategies with the goals and values of the organizations you work with?

## Prompting Eg. 3 (I take a role)

- I am a technology integration specialist.
- I am conducting a training session on ChatGPT for teachers.
- My audience consists of educators from various disciplines and grade levels.
- I want to demonstrate how teachers can effectively utilize ChatGPT in their teaching practices.
- Provide a brief overview of ChatGPT's capabilities and potential applications in education. Highlight specific examples and use cases tailored to different subject areas and grade levels. Offer practical tips and strategies for integrating ChatGPT into lesson planning, student engagement, and assessment. Encourage participants to brainstorm ideas for incorporating ChatGPT into their teaching practice and address any questions or concerns they may have.

Role Purpose Audience

Requirements

**Parameters** 

# Session 4 Overcoming Challenges and Ethical Considerations

# Overcoming Challenges and Ethical Considerations

### Objective

### Structure

#### List down

- Challenges
- Ethical considerations

#### associated with the application of GenAI

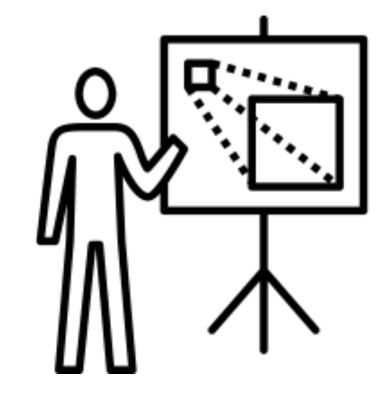
- Challenges
- Ethics

## Ethical Guidelines for Al-Generated Content

- **Transparency**: Disclose when content is Al-generated to maintain trust and transparency with users.
- Accountability: Hold creators accountable for the quality and implications of AI-generated content.
- **Diversity and Inclusion**: Ensure diversity in training data and actively mitigate biases to promote fairness and inclusivity.

# Mitigating Risks and Challenges

- Continuous Monitoring: Regularly assess Algenerated content for accuracy, bias, and ethical implications.
- Human Oversight: Incorporate human oversight to review and verify AI-generated content, reducing the risk of errors and biases.
- **Regulatory Frameworks**: Advocate for ethical guidelines and regulations governing the use of AI in content creation to safeguard against misuse.







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