Copilot Login Instructions:

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• If you need assistance, scan the code/website. Or let us know

Tx.ag/COPILOT
Practical Strategies: Leveraging the Use of Generative AI

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Objectives

• **Describe** your experiences with AI.
• **Explain** the possible benefits of using Generative AI in the Hullabaloo course.
• **Evaluate** the use of Generative AI in the current Hullabaloo course.
Agenda

- Overview of AI with a focus on Generative AI
- Demo of Copilot
- Explore Copilot as a student
- Reflection
- Takeaways
- Resources
Activity

- In the Padlet answer the following two questions:
  - How are you currently using AI?
  - How can instructors and students use AI in a course?
  - Review the other posts.

Padlet link:
https://tinyurl.com/Hull24
Artificial Intelligence at A Glance

Machine Learning/Deep Learning
Use Cases
* Automated Stock Trading
* Fraud Detection

Natural Language Processing (NLP)
Use Cases
* Speech to text
* Spam detection
* Digital Assistance (Siri/Alexa)

Large Language Model (LLM)
Use Cases
* Summarizing Content
* Generate Codes
* Generate Images
What is Generative AI?

- **Type of AI** that uses [machine learning](#) algorithms and existing data from broad digital and social sources to generate original, human-like material.

- Can be considered the "mouthpiece" of AI.

- CoPilot and ChatGPT are examples Large Language Models.

- Our focus for this workshop will be on **CoPilot** and how to use it to enhance and develop your courses.
Why does it matter? – Incremental Growth

Time to Reach 100M Users

Chat GPT: 2 months
TikTok: 9 months
Instagram: 30 months
Facebook: 54 months
Internet: 84 months
Mobile Phone: 192 months

Reference: Microsoft AI Event PowerPoint
Why does it matter? – Development of Skills

Required skills in the AI Era

- Analytical judgement: 30
- Flexibility: 29
- Emotional Intelligence: 27
- Creative Evaluation: 24
- Intellectual Curiosity: 23
- Bias Detection and Handling: 22
- AI Delegation: 21

Reference: Microsoft AI Event PowerPoint
How can Gen AI be used?

Content, image and video generation
- Automatically generate responses to student and teacher inquiries
- Visual aids for diverse learners and interactive multimedia lesson plans
- Hyper-personalized learning material creation
- Collaborative creative writing and artwork for class projects

Summarization
- Classification, sentiment analysis, entity extraction, and summarization
- Summarization of subject matter expert documentation (e.g. lengthy educational articles, analyst articles)
- Highlighting essential points in learning texts
- Adjust complexity, tone, age-level, and language of complex content

Code Generation
- Convert natural language to code or SQL (or vice versa)
- Convert natural language to query proprietary data models
- Document, troubleshoot, and repair code
- Personalized code examples and problems during learning

Advanced Search
- Tailored educational resource discovery, connecting cross-disciplinary concepts
- Multi-modal searching through structured and unstructured documentation
- Information discovery and knowledge mining
- Enable multimodal search approaches and results
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Three Conversation Styles
More Creative Style

This style is ideal for users who want long answers with additional facts and details.
This is the default conversation style that provides neutral responses.
More Precise Style

This style is suitable for users who want to-the-point answers.
Demo

Prompt:
• Generate a travel plan for Summer 2024 for two people in a destination outside of the United States or America.
1. Prompt displayed on the top.
2. Copilot’s response to the prompt. It starts off with a phrase similar to “Sure” followed with the generated response.
3. “Stop Responding” button to stop the response generation in the event the response does not match the users desired outcome.
4. “New Topic” button is used to start a new conversation with Copilot while disregarding and clearing out the previous generated responses.
1. Prompt displayed: “Generate a travel plan for Summer 2024...”
2. Generated Copilot response.

- This is the outcome using the “Precise” style.
- If the user selects the “Balanced” style, Copilot would generate a general list of recommended places to visit.
- The “Creative” style will generate for the user a more creative vacation plan.
Demo

Prompt:
• Adjust the previous plans for the week of July 7th-July 13th.
Copilot

Sure, here's the adjusted itinerary for your trip to Italy from July 7th to July 13th:

**Day 1 (July 7): Rome**
- Arrival in Rome.
- Rest and acclimatize to the time zone.

**Day 2-3 (July 8-9): Rome**
- Visit the **Colosseum**, **Roman Forum**, and **Palatine Hill**.
- Explore **Vatican City**: the **Sistine Chapel** and **St. Peter’s Basilica**.
- Stroll around **Trastevere** and enjoy local cuisine.

**Day 4-5 (July 10-11): Florence**

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- Copilot's generated response is more refined and date specific based on the previous instructions added to the original prompt.
Prompt:
• Adjust the plans above by including affordable hotels ($200-$300) and affordable restaurants with prices ranging ($50-$100).
Sure, here's the adjusted itinerary for your trip to Italy from July 7th to July 13th, now including affordable hotels and restaurants:

Day 1 (July 7): Rome
- Arrival in Rome.
- Rest and acclimate to the time zone.
- Hotel: iQ Hotel Roma or Hotel Diocleziano (Approx. $200-$300 per night)
- Restaurant: Ristorante Falciani or Target (Approx. $50-$100 per meal)

Day 2-3 (July 8-9): Rome
- Visit the Colosseum, Roman Forum, and Palatine Hill.
- Explore Vatican City: the Sistine Chapel and St. Peter's Basilica.
- Stroll around Trevi area and observe�s' slice.
Activity Time
Instructions

- Login to Copilot using your TAMU account.
- With your group, look at your assignment and think as a student.
- Use Copilot to help you complete this assignment.
- With your group you will answer some questions reflecting on the experience.
- You have 15 minutes
Reflection Questions

1. Describe your experience of using Copilot as a student.
2. How can the use of Copilot enhance the student learning experience?
3. List some challenges associated with the use of Copilot.
Share Time
Key Takeaways

#1 • The accelerated utilization of AI is reshaping the new norm across all domains.

#2 • Generative AI can be used to promote creativity, data analysis, efficiency and personalization.

#3 • Achieving the best results and outcomes is contingent on good prompt engineering and fine tuning of the initial prompt.
Key Takeaways

#4
• Being cognizant of the ethical implications of generative AI such as data collection, data ownership, and human agency.

#5
• Acknowledging AI’s flaws including bias, quality control and originality.
Resources

tax.ag/DTLLINKS