

AI Simplified

A Primer on the Usage of Artificial Intelligence



Seminar Logistics

Where: Missoula Public Library - 4th floor Cooper Room (Side A)

When: Wednesday, November 8, 2023, 6:30–7:30pm

Presenter: Dan Hubing

Email: raceway-stoves09@icloud.com


<p>Welcome</p>	<p>“Welcome to the “AI Simplified” Seminar. In the next hour, your expanded knowledge of AI will help you understand how AI can benefit yourself, humanity, and the earth itself.</p> <p>That’s a bold statement, for sure. But why not? There’s a high probability it may be true. That’s because AI systems output its highest probability of an answer.</p>
<p>Introductions:</p>	<p>Dan Hubing – Never stop learning.</p>
<p>“What is AI?” <u>Ask 3 attendees</u></p>	<p>AI systems <u>optimize and solve very complex and repetitive</u> tasks. Like zapping weeds in a cabbage field in California, from a platform pulled by a tractor. (This startup was recently purchased by John Deere.)</p> <p>AI Chatbots answers questions with “probable” answers. Therefore, the outputs are sometimes identified as “<u>hallucinations</u>”: which are false results.</p>
<p>What is generative AI?</p>	<p>It is a chatbot AI system that “generates” a response from prompts. Some AI applications can create artwork, sounds, or computer code; all in a response to prompts or other inputs.</p> <p><u>Types of AI Systems:</u> Traditional AI: is referred to Narrow or Weak AI Traditional AI systems are primarily used to analyze data and make predictions. Like playing chess.</p> <p>Generative AI: creates something new from a prompt. It will create new data similar only to its training data. Like ChatGPT.</p> <p>General AI (GAI) or Artificial General Intelligence (AGI): are referred to Strong or Strict AI, because it’s expected to be equally as smart as a human without any human intervention. Like ???</p>

Objectives for this Seminar
1: When to use ChatGPT?
2: Improve Prompt writing to return more precise results
3: List four AI apps that are commonly used in personal and business settings


Objective 1: When to use ChatGPT?

Generative AI	<p>GPT stands for Generative Pre-Trained Transformer Developed by OpenAI (www.openai.com)</p> <p>This means that it learns what to say by capturing information from the internet and then uses this text to “generate” or predict the next word in response to a prompt.</p> <p><u>OpenAI “changed the world” on November ’22, 2023</u> https://openai.com/chatgpt (ChatGPT is a variant of GPT3, a newer version GPT4 is also available.)</p> <p><u>Microsoft’s AI “Bing”</u> www.bing.com (Bing is native in Edge. Use the “Microsoft Bing Search Engine” extension for other browsers. Bing is also an Android or iOS app.)</p> <p><u>Google’s AI “Bard”</u> https://bard.google.com/</p> <p><u>Art and Images</u> DALL·E can create realistic images and art from a description in natural language. https://openai.com/dall-e-3</p> <p><u>Music</u> Ask your Alexa to play “AI Piano”. or: https://music.amazon.com/albums/B0BVS9PZVJ</p>
---------------	--

<p>When use ChatGPT?</p> <p>(or other generative AIs)</p>	<ul style="list-style-type: none"> • Provide a more well-rounded answer to a “standard” internet search. • Have a little fun with a casual conversation with an AI. • Need assistance in: Proofreading, Researching, Debugging, Brainstorming or Clarity on complex concepts
--	---


DANNY

Give me the top 5 reasons to use chatgpt


CHATGPT

Certainly! Here are the top 5 reasons to use ChatGPT:

1. **Versatility:** ChatGPT can assist with a wide range of tasks, from answering questions and generating content to providing suggestions and brainstorming ideas.
2. **Convenience:** It's available 24/7, providing instant help whenever you need it, without the need to wait for human assistance.
3. **Efficiency:** ChatGPT can quickly generate text, saving you time and effort when drafting emails, reports, or any other written content.
4. **Anonymity:** You can discuss sensitive or personal topics without the fear of judgment, as ChatGPT ensures your privacy.
5. **Language Support:** ChatGPT can communicate in multiple languages, making it a valuable tool for users around the world.

Remember, while ChatGPT is a powerful tool, it's important to critically evaluate its responses and use it as a supplement to human expertise when needed.

ChatGPT answers this question...

Objective 2: Improve Prompt writing to return more accurate results.

Prompt Engineering	<p>When prompting for an internet search, you sometimes needed to rephrase your prompt to improve your response.</p> <p><i>"The probability of getting a desired output is based on the quality of the prompt."</i></p> <p>A <u>perfect prompt</u> should contain many of these characteristics:</p> <ul style="list-style-type: none">- Clear, concise, specific- Measurable, achievable, use action words- No ambiguity, test and improve your prompt <p><u>Prompt improvement Tips:</u></p> <p>Contextual prompting: Provide <u>background context</u> before asking a question. Example: <i>"I'm planning a trip to Paris. What are the top 3 tourist attractions I should visit?"</i></p> <p>Explicit instruction: Clearly specify the <u>type of answer</u> or format you want. Example: <i>"Summarize the key events of WWII in a bulleted list."</i></p> <p>Step-by-step instruction: Break down <u>complex requests</u> into smaller, simpler questions. Example: <i>Ask about losing weight first, then building muscle.</i></p>
	<p>Learning about "Prompt Engineering":</p> <p>Want to standout at work? https://www.worklife.news/technology/learning-chat-gpt/</p> <p>MIT Announced Prompt Engineering is top AI skill: https://www.cnbc.com/2023/09/22/tech-expert-top-ai-skill-to-know-learn-the-basics-in-two-hours.html?</p> <p>https://www.coursera.org/learn/prompt-engineering</p> <p>https://www.freecodecamp.org/news/how-to-communicate-with-ai-tools-prompt-engineering/</p> <p>https://thenextweb.com/news/openai-free-class-prompt-engineering-devs</p>
<p>Tip: HR Recruiters are now looking for employees with "<u>Prompt Engineering</u>" course experience or background.</p>	

Objective 3: List four AI apps that are commonly used

AI apps in use now	(Note: There are many more than four...) <ul style="list-style-type: none">- Digital Assistants: Alexa, Siri, Google search- Google Lens: for camera search for like objects/information- Voice Translators: to convert words between languages- Smart cars: Tesla for example- Advanced Gaming programs- Healthcare & Financial management...
AI application sites	Art: https://dream.ai/ Doodle: https://clipdrop.co/stable-doodle Need A Friend: https://replika.ai Text to Video: https://www.youtube.com/watch?v=8HpQgEEhbC4 Project Management: https://height.app/
Empower employees	Small or Large Business uses of AI: https://www.entrepreneur.com/leadership/6-ways-small-businesses-can-use-ai-more/455569 Some learning institutions are assembling task forces, hosting webinars, and organizing information sessions to educate instructors and administrators about this technology. The head of one such task force shared: “we begin every meeting not with slides, but by pulling up ChatGPT on a screen and experimenting with it live. I watch jaws drop. Once they’ve seen the tool, the discussion is very different.” <ul style="list-style-type: none">• We urge instructors and administrators who haven’t yet done so, to try ChatGPT or similar tools, like Google Bard or Bing Chat. Ask it to write you an essay on your own thesis topic, or brainstorm answers to a key question in your course. Ask ChatGPT how you can integrate it into your class. Find ways for it to assist you with your own work; early experimenters are lesson planning, creating custom activities, and outsourcing administrative tasks. AI Jobs for older employees: https://theaging.ai/articles/ai-older-workers/ Using ChatGPT in Business: https://tech.co/news/10-ways-businesses-using-chatgpt

<p>People with Disabilities</p>	<p>How is AI transforming lives?</p> <ul style="list-style-type: none"> • <i>Those with <u>speech impediments</u>.</i> Applications like Voiceitt can analyze unique speech patterns of individuals and transcribe speech in real-time, allowing for seamless inclusion of those with even severe speech impediments in voice calls and live interactions. • <i>Those needing <u>enhance vision</u>.</i> A multitude of AI tools now can convert visual data into a variety of other formats, including audio. Many tools can also make images more interpretable through easy-to-use contrast and quality resolution features. • <i>Those who struggle to <u>hear</u>.</i> AI has substantially improved voice and video transcription speed and accuracy. Other tools, such as <u>Whisper</u>, can reduce background noise significantly so the user can more clearly hear the voice or primary sound. • <i>Those with <u>mobility issues</u>.</i> New, AI-enabled mobility assistants have been equipped with groundbreaking technology which allows for easier control. This includes voice-controlled wheelchairs and prosthetics which can more accurately detect fine-grained nerve inputs.
<p>Home Schooling</p>	<p>Khan Academy: has added <i>Khanmigo</i>, its AI powered curriculum: https://www.khanacademy.org/khan-labs?</p> <p>ChatGPT for Teachers: YouTube has many videos to help teachers and students understand how ChatGPT can help.</p>

AI Terminology sites

- <https://www.coursera.org/articles/ai-terms>
- <https://www.techrepublic.com/article/artificial-intelligence-cheat-sheet/>
- <https://www.ibm.com/blog/ai-vs-machine-learning-vs-deep-learning-vs-neural-networks/?c=Artificial%20intelligence>

Stay up to date “Ride the Wave”

Newsletters:

<https://www.therundown.ai/subscribe?>

<https://www.bigbraindaily.com>

<https://tldr.tech/>

Learn AI systems: <https://www.datacamp.com/blog/how-to-learn-ai>

Educational curriculum and resources: <https://ai-4-all.org/resources/>

Learning Blog: <https://blog.coursera.org>

Help at work: <https://www.worklife.news/technology/learning-chat-gpt/>

Work smarter using AI tools (includes listening mode): <https://every.to>

MIT free online courses: <https://ocw.mit.edu/search/?q=AI>

Report from the 1st ever AI Engineer Summit:

<https://swizec.com/blog/ai-engineer-summit-report/>

Set your December calendar:

Three CHRISTMAS LECTURES will be shown on BBC, by Mike Wooldridge, Professor of AI at Oxford University and Director for AI at The Alan Turing Institute in London:

<https://www.rigb.org/explore-science/explore/blog/truth-about-artificial-intelligence-be-revealed-christmas-lectures-ri>

For your business?

Websites to help implement AI: <https://ae.studio>

6 Examples of successful businesses:

<https://www.zdnet.com/article/how-ai-is-transforming-organizations-everywhere/#ftag=CAD-03-10abf5f>

Example use case of ChatGPT in psychology on a job situation.

<https://every.to/chain-of-thought/ai-assisted-decision-making?>

24 Startups utilizing & benefiting from AI

<https://www.geekwire.com/2023/we-asked-24-startups-in-the-new-techstars-seattle-class-about-how-ai-is-impacting-their-business/>

It's getting easier to create an AI system for your business

https://youai.ai/?utm_source=therundownai&utm_medium=newsletter&utm_campaign=mindstudio&utm_content=20231017

AI Tips and Information:

Ethical AI

Most AI Models, generally get their input data from **the internet** and anything that's mostly in public web spaces. This can lead the Model onto the untrue, wrong, or dangerous areas since there is a lot of incorrect information in public spaces.

Biases toward gender, race, privacy, human rights, and authority are often stated but not regulated. Don't forget about other issues that arise:

- Hallucinations (outputs of AI are in "high probability" but still be untrue)
- Copyright infringement (how much of a change from original is needed)
- Privacy issues
- Chaos if left unchecked (fake news, deepfake videos, manipulation of population)

An article discussing ethics:

<https://research.aimultiple.com/ai-ethics/>

An online course in AI Ethics.

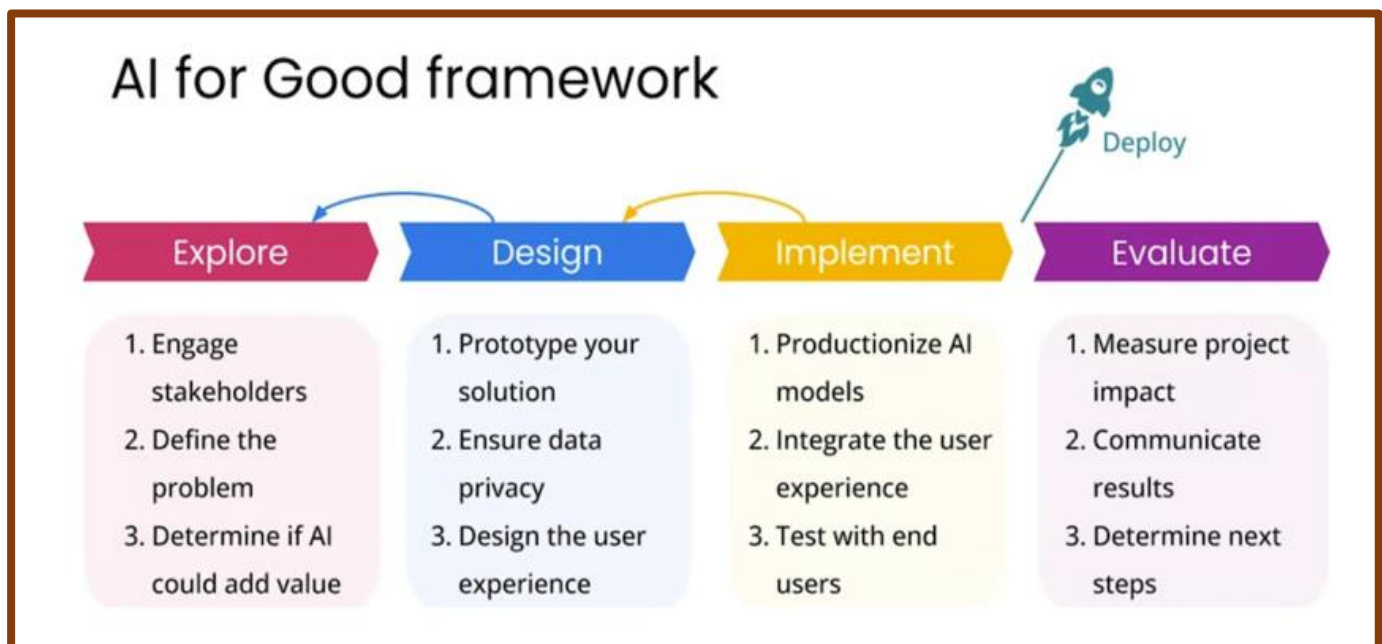
https://www.coursera.org/learn/ai-ethics-analysis?trk_ref=globalnav

Bill Gates's discusses his hope for AI in this website article:

<https://www.gatesnotes.com/The-risks-of-AI-are-real-but-manageable?>

A course on **AI For Good**.

<https://www.deeplearning.ai/courses/ai-for-good/>



Various AI platform Sites to check out:

<http://rovioai.com>

<https://super.tools.therundown.ai>

Why Tesla's Humanoid Robot Matters:

<https://scobleizer.blog>

How to improve your writing with Google's Bard:

<https://www.youtube.com/shorts/CkjkgH8pIBc>

AI Roles for 2023 - The Top 8 Emerging Jobs

<https://www.bigbraindaily.com/p/big-brain-premium-1?>

Use ChatGPT to create Charts:

How to craft perfect charts with ChatGPT

ChatGPT can create visually stunning charts for you— **without touching Excel** or writing a line of code.

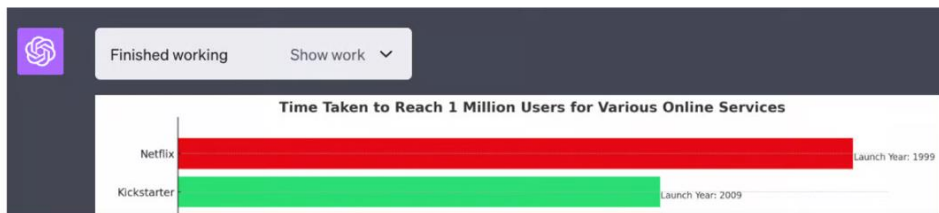
Step 1: Open ChatGPT and select 'Advanced Data Analysis' (previously Code Interpreter)

Step 2: Upload your data by attaching a file or pasting it into a prompt such as "Please create a visually stunning chart that best displays the following data." For this example, we used a [dataset](#) of how long it took various services to reach 1M users.

Step 3: If you have specific customization requests, add them to your prompt or ask ChatGPT to refine. Preferences can include chart type, color scheme, layout, etc.

That's it! All it takes are a few simple steps to get a customized, data-driven chart just by speaking in natural language with ChatGPT.





Try it out for your next presentation before reaching for Excel!



Lifelong Learning Center's *Introduction to AI*


An in-person AI introduction class right here in Missoula...


EVENT DETAIL

 SHARE |   

This event has already taken place! Please make sure you are in the correct year.

JUL
18
TUESDAY

 BACK TO
EVENTS

 TELL A FRIEND

Education :: Classes

Introduction to Artificial Intelligence (AI)

1:00 PM (America/Denver)


Lifelong Learning Center


Description:

Have you been wondering what all the hype is with AI? Do you wonder if this is something you can use for your business? Learn how to use open-source tools to create your own AI applications without needing any coding knowledge or experience. You will discover how machine learning and natural language processing works, as well as, a better understanding of robotics, computer vision and more! Class Fee \$58 - Class Number: C-AI01.2 Instructor: Enos, Darren - Meets on: Tu for 1 sessions


Age Group: 18+

Venue: Lifelong Learning Center

 [Visit Website](#)

 [Visit Venue Page](#)

Address: 310 S Curtis Missoula, MT 59801

 [Get Directions](#)

This screen capture taken in early August.

For latest schedule, refer to the LLC's website:
<https://missoulaclass.com/>