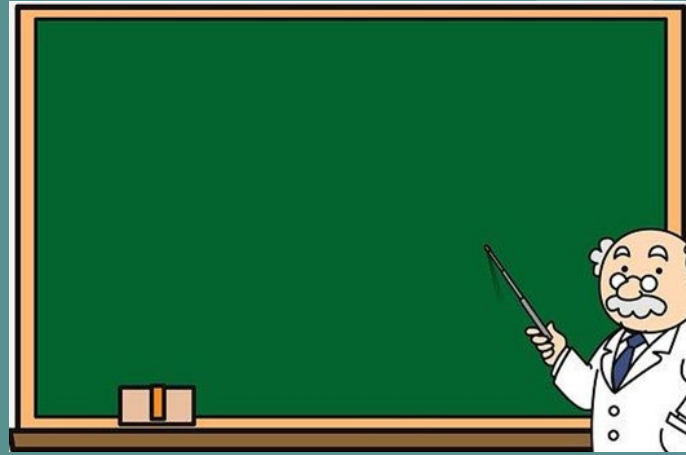


Artificial intelligence

AI 101

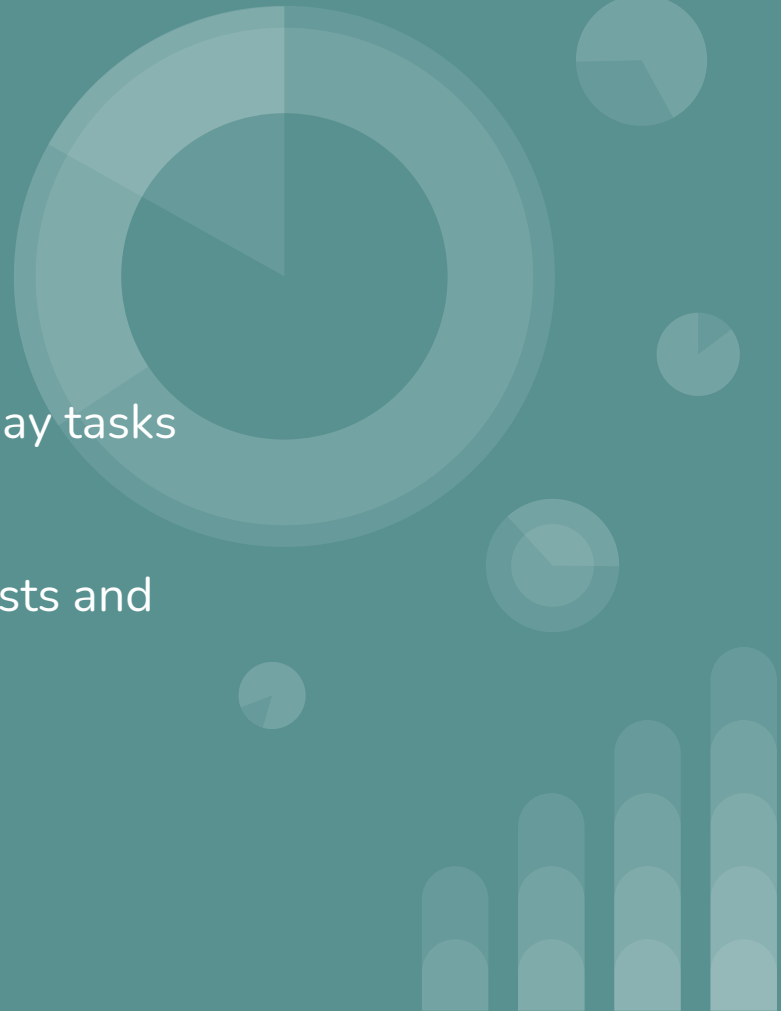


Introduction to AI
Large Language Models (LLMs)

By: Sheriff Kolawole Benson created with
the help of AI (Gemini/ChatGPT)

Learning Objectives

- Introduction to AI and LLMs
- Define what LLMs are
- Exploration of AI's potential and use in every day tasks
- Real-world examples of AI applications
- Interactive Q&A to address your specific interests and concerns.





What is Artificial Intelligence (AI)?

- AI refers to machines that can perform tasks that typically require human intelligence.
- Different types of AI include:
 - Narrow AI (e.g., LLMs/chatbots)
 - General AI (future concept)
- AI is used in a variety of industries, including healthcare, finance, and customer service.



What are Large Language Models (LLMs)?

- LLMs are trained on massive datasets of text and code.
- This training allows them to generate text, translate languages, write different kinds of creative content, and answer questions in an informative way.
- LLMs are used in a variety of applications, including chatbots, virtual assistants, and content creation tools.
- LLMs are still under development, but they have learned to perform many kinds of tasks.
- Examples of LLMs include ChatGPT, Gemini etc.





LLMs in Action: Real -World Use Cases

- Commercial uses
 - Customer service chatbots and virtual assistants
 - Content creation and summarization
 - Personalized marketing strategies
 - Medical research and drug discovery





LLMs in Action: Real -World Use Cases

- Personal uses
 - Content creation and summarization
 - Letter/Email writing
 - Idea generation & workshopping
 - Answering simple questions





LLMs in Action: Pharmacy Examples

- Case Study: Pharmacist uses LLM to quickly summarize a new drug research.
 - Demo: Using an LLM to generate a response to a common patient question.
- Case Study: LLM assisting in checking for drug interactions for a complex prescription.
- Case Study: LLM assisting in checking for drug interactions for a complex prescription.

Examples

<https://chatgpt.com/>



OpenAI

<https://docs.google.com/document/u/0/>

<https://docs.google.com/spreadsheets/u/0/>

<https://docs.google.com/presentation/u/0/>

Microsoft



Gemini



The Future of AI in Pharmacy

- AI and LLMs offer significant benefits to pharmacy workflows.
- These tools can increase efficiency, accuracy, and personalization.

- Continued exploration of AI tools is crucial for staying competitive.
- Embrace the future of pharmacy with AI!



Ethical Considerations & Limitations of LLMs

- LLMs can perpetuate biases present in the data they are trained on.
- Patient data privacy is paramount and must be protected.
- AI should be used to support pharmacists, not replace them.
- Careful monitoring is necessary to prevent misuse and errors.
- Transparency in AI algorithms is crucial for accountability.



Questions & Discussion

- What questions do you have about LLMs in pharmacy?
- How do you envision using AI in your daily tasks?
- What concerns do you have about implementing AI in your pharmacy?

