



# AI 101 AND POTENTIAL AI PITFALLS

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# OUTLINE OF PRESENTATION

1. A quick primer on the basics
2. Important technical concepts for generative AI
3. Potential negative implications for EdTech
4. Best practices moving forward

# BASICS OF AI: AN ALGORITHM IS SIMPLY A SERIES OF COMMANDS

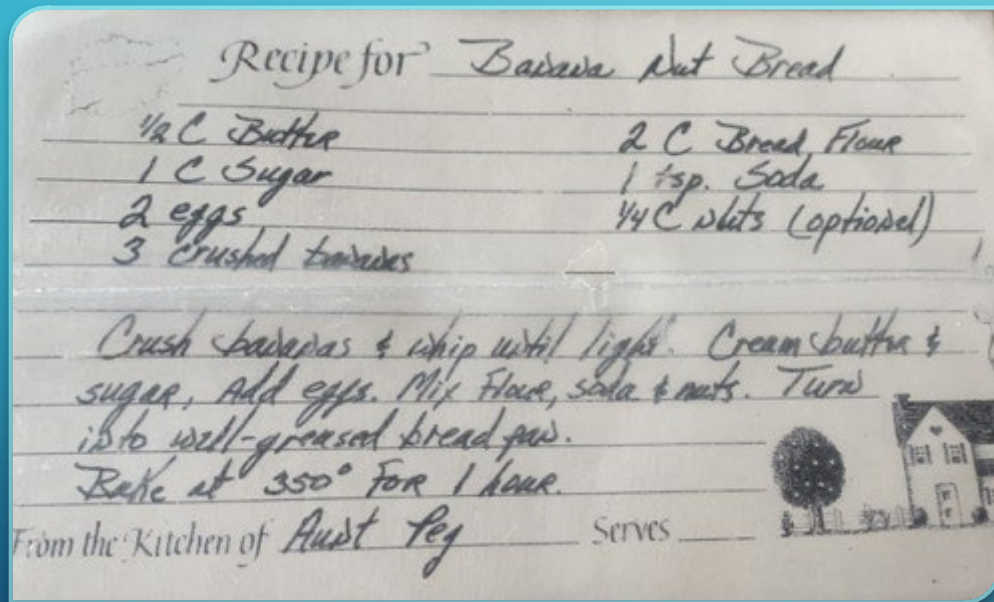
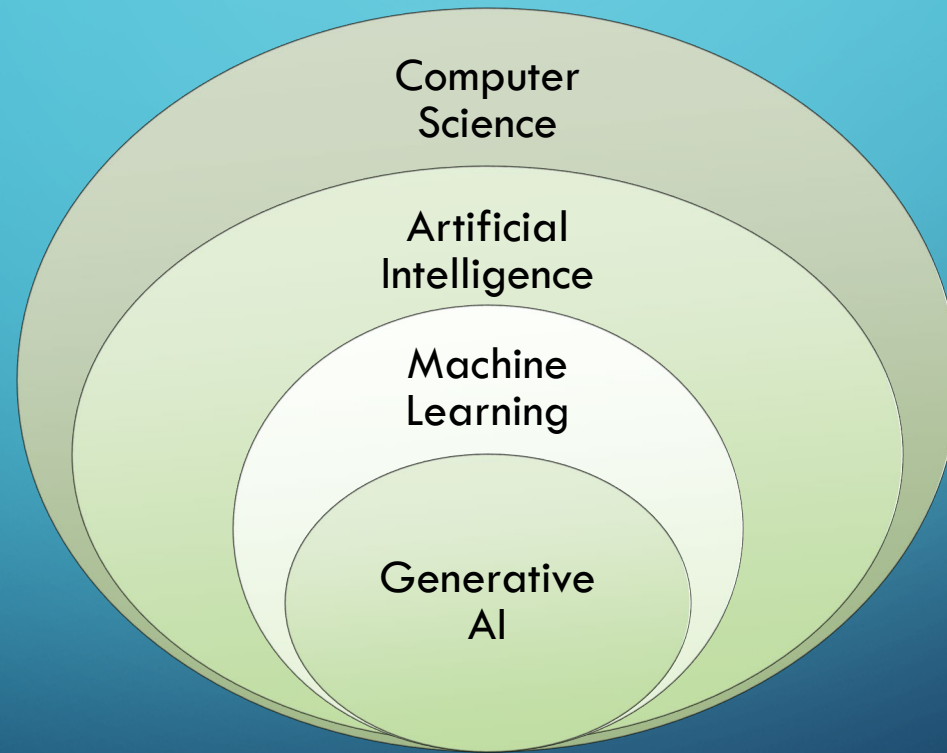


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- Algorithms are guidelines that tell you how to perform a task
- Recipes are algorithms, as are step-by-step driving instructions
- When an algorithm is directing a computer what to do, we call that code or a program



# THE BASICS OF GEN AI





# IMPORTANT TECHNICAL CONCEPTS FOR LLMS

- Input side:
  - massive data training sets
  - potential issues with bias
  - potential issues with privacy
- Output side:
  - hallucinations
  - memorization/regurgitation
  - (more) Potential issues with privacy
  - lack of explainability/interpretability





## WHAT ARE THE POTENTIAL NEGATIVE IMPLICATIONS FOR EDTECH?

- First, a quick acknowledgement that there are absolutely potential upsides, and my fellow panelists will cover those!
- BUT, we need to be mindful of:
  - Data privacy and security concerns
  - Bias
  - Accuracy and quality



# BEST PRACTICES MOVING FORWARD

- The other panelists will address policies and case studies
- An important best practice: human in the loop
  - Importance of the human-student connection
  - Humans as guards against known issues





QUESTIONS?