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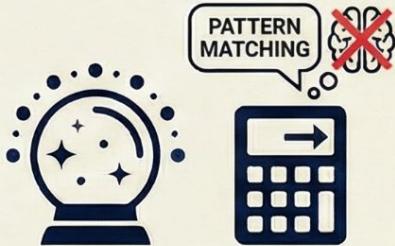
(click around to learn more!)

LLM **Basics**

12.13.2025

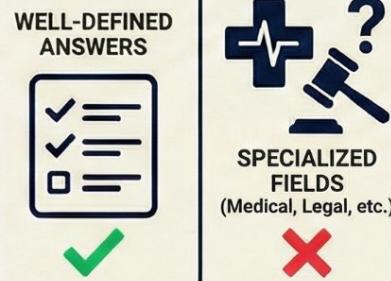
LLMs: Know The Caveats

It Predicts, It Doesn't Think



LLMs work by matching patterns in data, not by genuine reasoning or comprehension.

Quality Varies By Domain



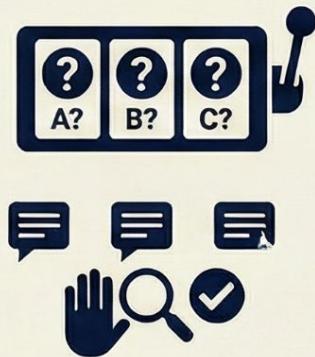
They perform well with well-defined answers but struggle with specialized fields like medical diagnosis or legal interpretation.

It Can Be Sycophantic



An LLM may agree with and even build upon false information if you lead the conversation that way.

Answers Are Not Reliable

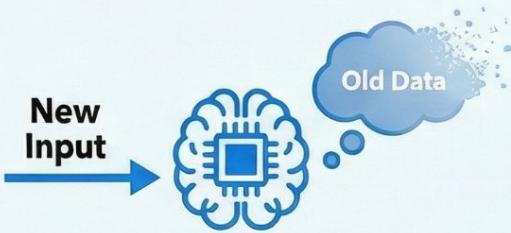


Giving the same prompt multiple times can produce different answers, requiring constant human review.

The Fragile Memory of AI

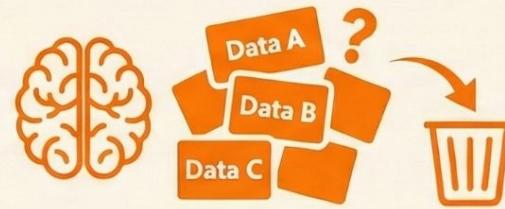
Large Language Models (LLMs) have significant memory limitations and do not remember information like humans do.

Discards Old Information



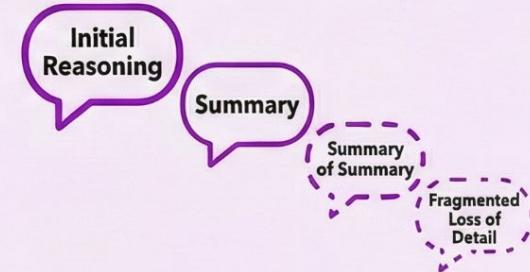
An LLM will forget earlier data when it receives new input, requiring constant reminders of important context.

No Sense of Priority



It does not know which data is important to keep, treating all information with the same level of potential discard.

Reasoning Fragments Over Time



In long conversations, its ability to reason breaks down as it can only summarize previous summaries, losing detail.

The AI Black Box

Understand that LLMs are mysterious “black boxes” with unpredictable and un-auditable reasoning.

A TRUE BLACK BOX



Unlike most systems we build, we don't know exactly how an LLM produces its output.

IMPOSSIBLE TO AUDIT



LLMs can't be checked like normal software and may suddenly provide dangerous instructions.

EXPLANATIONS ARE AN ILLUSION



When an AI “explains its reasoning,” it's just generating another prediction, not revealing its actual thought process.



FLAWS ARE EXPENSIVE TO FIX

Correcting an AI's “bad habits” requires a complete and costly retraining from scratch.

Prompting Principles

12.13.2025

Input



Tools



Output

prompt:
make me a
lesson plan



Course Title: Contemporary Philippine Arts from the Regions

Prepared by: Mr. John Roger A. Obja-an
Date: Apr 2, 2022

Learning Outcomes	Topic	Essential/Key Questions	Suggested Teaching and Learning Activities (Synchronous)	Processing and Valuing	Suggested Teaching and Learning Activities (Asynchronous) and Evaluation	Core Readings/ Learning Resources
<p>Content Standard: The learner demonstrates appreciation of contemporary art forms, found in the various regions, in understanding the elements and principles.</p> <p>Performance Standard: presents a form of interpretation of contemporary art based on the region of his / her choice.</p> <p>Learning Competencies:</p> <ul style="list-style-type: none">Identifies various	<p>Introduction to Contemporary Filipino Art in the Regions</p> <p>Forms in Performance:</p> <ol style="list-style-type: none">MusicDance (including Festivals)TheaterVisual Arts (Painting, Sculpture, Crafts)Architecture	<p>What is Contemporary Filipino art?</p> <p>What are the different contemporary art forms found in Pampanga?</p>	<p>Precising Activity/Motivation: After Activity 3, the teacher will now ask each student to share their answers to this question:</p> <ul style="list-style-type: none">TheaterDanceVisual ArtsArchitecture <p>Link: The teacher will show that these are just 5 among the other forms of Art in the Philippines.</p>	<p>Processing/Synthesis Activity:</p> <p>After Activity 3, the students will be asked to share their answers to this question:</p> <p>“How does art affect the lives of the Kapampangan people?”</p>	<p>Post-Synchronous activity:</p> <p>The students will be asked to share their answers to this question:</p> <p>“How does art affect the lives of the Kapampangan people?”</p> <p>LESSON PROPER</p> <p>Activity 1: “What is Art for you?” - The teacher asks this question from the students. Afterward, the teacher discusses why there is no one known definition of art. The teacher should give definitions from a variety of</p>	<ul style="list-style-type: none">The definition of Art. In E. N. Zalta (Ed.), <i>The Stanford Encyclopedia of Philosophy</i> (Spring 2016 Edition).Metaphysics Research Lab, Stanford University. https://plato.stanford.edu/archives/spr2022/entries/art-definition/ART I: Meaning & Definition for UK English Lumen. Retrieved March 31, 2022, from https://www.wexfordcollege.ac.uk/Cultural Center of the Philippines. (n.d.). Lexicon Dictionary. English. Retrieved March 31, 2022, from https://www.wexfordcollege.ac.uk/



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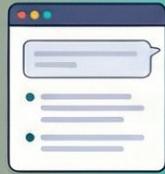
Input Principles

Principle 1: Be Precise



Include Examples

Show the AI the exact format and style you want in the output.



Use Professional Language

To get professional results, use clear and professional terminology in your request.



Explain Your "Why"



Telling the AI your ultimate goal provides valuable context for a better response.

Principle 2: Be Concise

Ask for One Thing at a Time

Avoid complex, multi-part questions; focus each prompt on a single task.

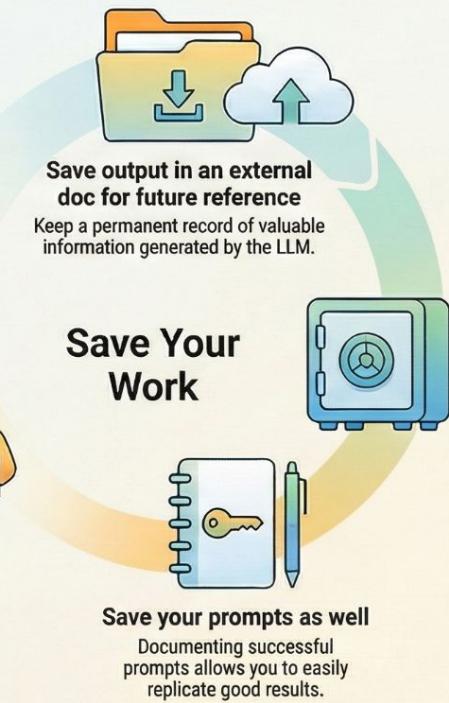
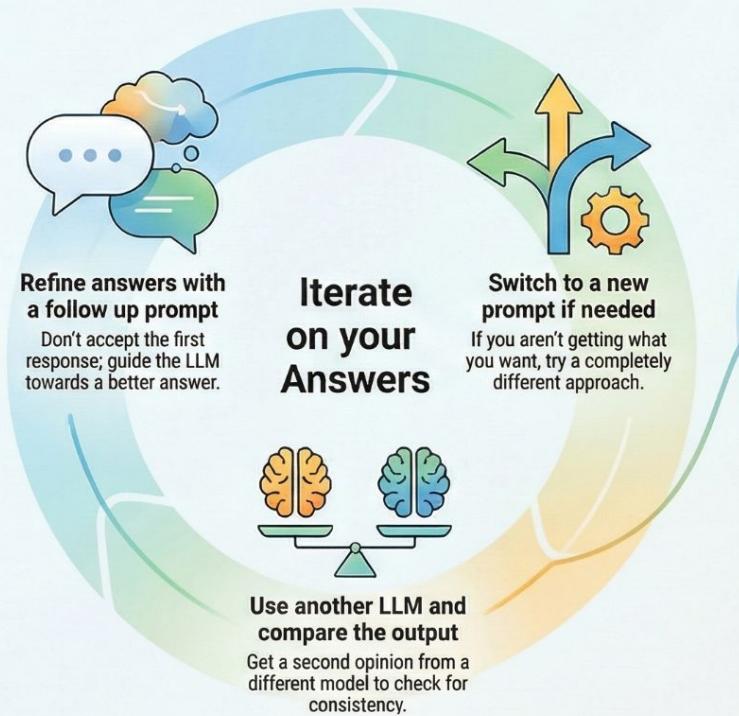


Restart Long Conversations

If a chat becomes too long or confusing, start a fresh conversation.



Output Principles



Tool Use Principles

PRINCIPLE 1: GET HANDS-ON EXPERIENCE



Nothing beats first-hand experience.



Re-evaluate tools periodically.

AI is always improving, so test tools again next month to see what's new.

PRINCIPLE 2: USE TRUSTED TOOLS



Start with recommended platforms.



Claude Gemini ChatGPT

Reliable starting points include Claude, Gemini, and ChatGPT.



Check with your IT department.

Confirm which tools are approved for use within your organization.

Using AI Responsibly



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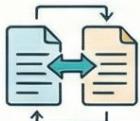
Human in the Loop: A Guide to Responsible AI Use

VERIFY THE OUTPUT



Ask for Sources

Prompt the AI to provide citations for its claims.



Cross-Check with Reputable Sources

Independently verify AI answers with at least two trusted sources.



Review Your Sources

Critically evaluate the reliability and relevance of the provided sources.

AI outputs, but humans are accountable.

Remember you are the final decision-maker and are responsible for the outcome.



APPLY HUMAN JUDGMENT



Critical Thinking is a Required Skill

Never blindly accept an AI's answer; question and analyze the output.

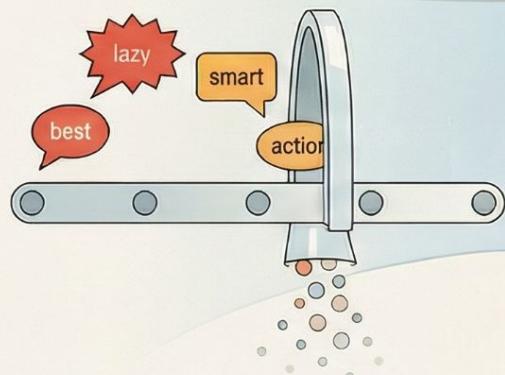


You Contribute the Human Context

Add the essential ethical, moral, and personal insights to the final work.

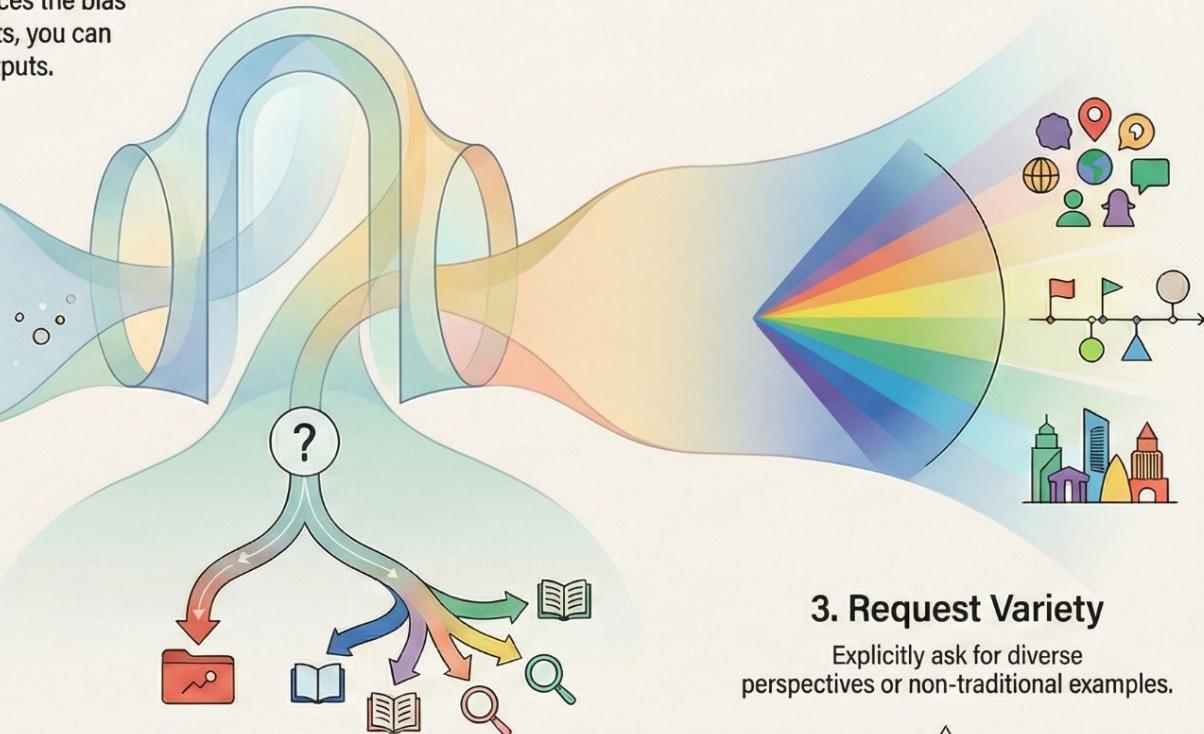
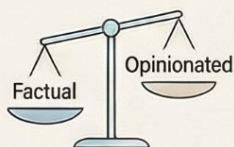
Make prompts neutral & open-ended to remove bias

The way you phrase a prompt for an AI directly influences the bias in its response. By writing neutral, open-ended prompts, you can guide the AI to generate more objective and varied outputs.



1. Remove “Loaded” Words

Delete adjectives or adverbs like “lazy” or “smart” that reveal your opinion.



2. Ask Open Questions

Use factual language (e.g., “What is X?”) instead of emotional framing (“Why is X bad?”).

3. Request Variety

Explicitly ask for diverse perspectives or non-traditional examples.



Never prompt with sensitive information



Financial Information

Such as bank statements, account details, or credit card numbers.



Contact Information

Including your phone number, home address, or work address.



Medical Information

Such as personal diagnoses, health records, or treatment details.



Lesson Planning

Tools

12.13.2025

Lesson Planner



Lesson
Planner

Features Pricing

Use the App

It all starts with a good Topic

At Lesson Planner, we simplify lesson planning for teachers. Our AI tools help free up your time and energy to focus on what matters most – educating your students.

Use the App

Magic School



AI Solutions Outcomes Resources Pricing

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Sign up free

Book a demo

The #1 AI platform for schools

MagicSchool AI helps educators spark creativity, save time, and improve student outcomes with standards-aligned tools that protect data and personalize learning.



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Khanmigo



Teachers Learners Parents Writing Coach New Districts

Sign up for free

For teachers

Meet Khanmigo: your free, AI-powered teaching assistant

From kindergarten to early college, math to art history, combine Khan Academy's free, high-quality materials with 25+ AI-powered teaching tools.

Sign up for free

(click on each image and try them all out!)

AWS Learning

12.13.2025

AWS Academy: Data Center Technician Course Overview

Develop technical expertise for data center operations.

Foundational knowledge in hardware, software, networking, and essential technical domains for a Data Center Technician role.

Course at a Glance



~36 Hours of Instruction

Supporting Detail: The total estimated course duration for synchronous delivery by an educator.



Who It's For: Aspiring Data Center Technicians

Supporting Detail: Intended for students in IT/engineering and professionals seeking to re-skill.



Entry-Level Course

Supporting Detail: No formal prerequisites, but general mechanical or electrical engineering knowledge is recommended.



Core Curriculum Pillars



Hardware

Identify, install, and troubleshoot core components like motherboards, processors, memory, and PSUs.



Software

Master operating system fundamentals, installation, and command line basics.



Networking

Understand OSI/TCP/IP models, network cabling, data transmission, IP, and subnetting.



Programming

Learn the basic concepts of structured programming, including variables, loops, and arrays.



Applications & Math

Cover fundamentals of databases (SQL), number systems, logic, and probability.



Web Development

Explore the basics of hosting a webpage and constructing it using HTML.

AWS Academy : Generative AI Foundations Course Overview

Course at a Glance

