

# Hidden GEMS

## From Prompting to Partnerships in Everyday AI



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[tinyurl.com/3kxkwwa8](https://tinyurl.com/3kxkwwa8)



# VERITY HARDING

One of *TIME*'s 100 Most Influential People in AI

# AI NEEDS YOU

HOW WE CAN  
CHANGE AI'S FUTURE AND  
SAVE OUR OWN

*Technology is built by human beings, who bring to it their light and their shadow.* -Verity Harding, [AI Needs You: How We Can Change AI's Future and Save Our Own](#)

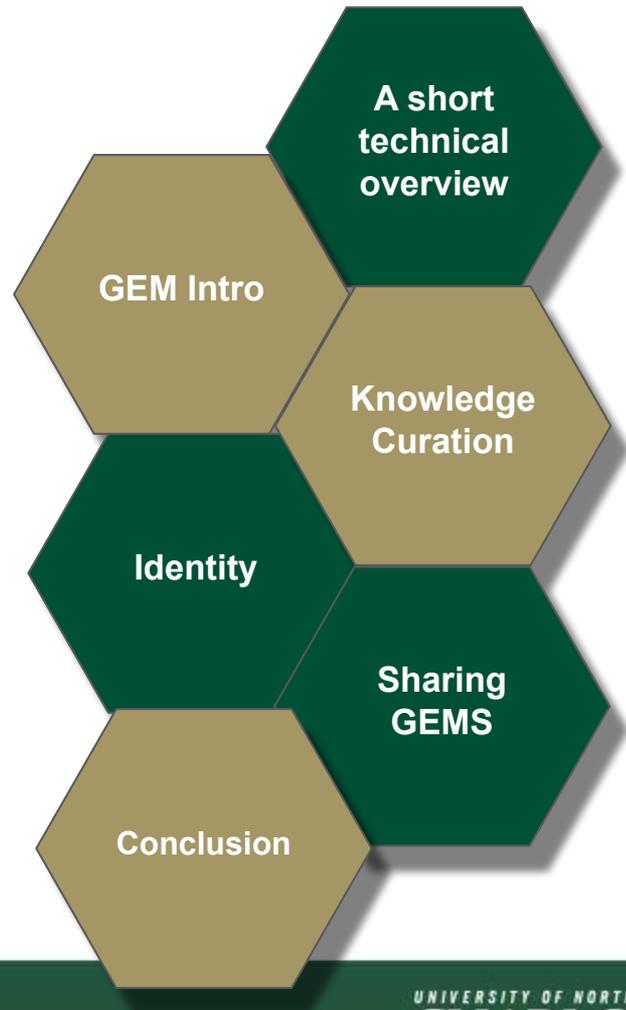
Everyone has asked a chatbot a question or two, used AI to write an email or gotten help with a last minute dinner recipe. But what if your everyday AI could be more? Today we will explore a powerful tool that anyone can use right now for free with a Google account

## *Gemini GEMs.*

GEMs transform everyday AI use from generic prompting into customizable AI collaboration. Go from prompting to partnership; from AI driven to *you* driven as we explore how to curate Google's free-to-use custom tools to make AI your own, centering your expertise, experience and needs, as we turn everyday AI into a personalized creative partner that amplifies your expertise and makes your work faster, smarter, and more human-centered.

# Agenda

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## What is a GPT?

**Generative: A ML algorithm learns patterns from unlabeled data.**

**A Generative Pre-Trained Transformer**

**Pre-Training: A lengthy process of training a LLM on massive amounts of data so it can recognize patterns and make predictions.**

**Transformer: The LLM, now trained makes predictions based on user input and the learned patterns from the training data, to transform the data into new content**

## Impact

**Evaporative Cooling vs. Closed-loop Cooling**

**Energy One Gemini Query = ~9 seconds of watching TV**

**AI Companies and Ratepayer Protection Pledge**

Google Cloud. (2025, August 21). *Measuring the environmental impact of AI inference.* <https://cloud.google.com/blog/products/infrastructure/measuring-the-environmental-impact-of-ai-inference/>

IBM. (n.d.). *What is GPT?* <https://www.ibm.com/think/topics/gpt>

Meyer, M. (2026, March 5). *AI data centers: What to know about their water and energy use.* CNET. <https://www.cnet.com/tech/services-and-software/ai-data-center-what-to-know/>

## Keep Activity Setting in Gemini

**Keep  
Activity  
ON**

### **“How your activity is used**

Google uses your activity to provide, develop, and improve its services (including training generative AI models), as well as to protect Google, its users, and the public with the help of human reviewers. Data reviewed by service providers is disconnected from your account and saved for 3 years. Your audio and Gemini Live recordings aren't used to improve Google services by default. Depending on your settings and region, Google also uses your activity to **personalize your experience**”

“Your future chats won't appear in your Activity, and won't be used to train our AI models, unless you choose to send Google feedback. Future chats are still saved for 72 hours so Gemini can respond to you, process your feedback, and protect Google, its users, and the public.”

**Keep  
Activity  
Off**

# What data protections are in place for Gemini with Data Protection?

Google Gemini with Data Protection is a more secure campus-wide alternative to consumer-oriented generative AI services, including the consumer version of Gemini.

- It protects your identity. And only uses it to determine if you are eligible to access the tool.
- Google cannot see your chats and does not use your chat data for training its AI.
- Chat data is encrypted.
- Google Gemini saves your recent chats so that you can view and manage your chat history. See the [Find & manage your recent chats in Gemini Apps](#) Google support page for more information.
  - If you turn off your activity history, It only saves your chat history for 72 hours (prompts and responses) for troubleshooting purposes.
  - If you want to save your chats, you can export the conversation or copy and paste it into a document.

Google provides many different kinds of licensing for Gemini. We are using Google Workspace for Education and the Gemini add-on service. Terms and conditions and privacy notices for other products do not apply. Google states in [their FAQ](#): "Terms of service exception for Workspace for Education users without a Gemini for Google Workspace license: Data from these users' Gemini activity isn't used for model improvements and isn't reviewed by human reviewers."

- [General Google Gemini Enterprise FAQs](#)
- [Generative AI Prohibited Use Policy](#)





Gemini

Upgrade to Google AI Plus



Hi Justin  
Where should we start?

Ask Gemini 3

+ Tools

Fast



Create image

Create music

Help me learn

Write anything

Boost my day





- Activity
- Instructions for Gemini
- Connected Apps
- Your public links
- Theme
- View subscriptions
- NotebookLM
- Send feedback
- Help
- Charlotte, NC, USA  
Based on your places (Home)  
Update location



How should we start?

Ask Gemini 3

+ Tools Fast

Create image Create music Help me learn Write anything Boost my day

## Gemini Apps Activity

### Keep activity

Keeping your activity lets you pick up chats where you left off anytime and helps improve Google services, including AI models. When this setting is off, Google still saves chats for 72 hours to respond to you and help keep Gemini safe.

✓ On ▾



Deleting activity older than 18 months



Improve Google services with your audio and Gemini Live recordings.



[Learn more about these settings](#)



Google protects your privacy and security. [Manage My Activity verification](#)

# AI Bias

*“AI bias, also called machine learning bias or algorithm bias, refers to the occurrence of biased results due to human biases that skew the original training data or AI algorithm—leading to distorted outputs and potentially harmful outcomes.”*

**How,  
When,  
Whether?**

*How has the  
AI system I  
am using  
been  
trained?*

**When am I  
going to  
deploy that  
system and  
for what  
purpose?**

*Whether AI  
is the right  
answer for  
the task at  
hand or not.*

**Let's login and try!**  
**[gemini.google.com](https://gemini.google.com)**

# Gemini

**Latin  
for  
"twins"**

**Ruled by  
Mercury**

**This planet is  
responsible  
for**

**Messages,  
schooling,  
education,  
communication**

**Dialectic**

**Gemini=  
Dualism**

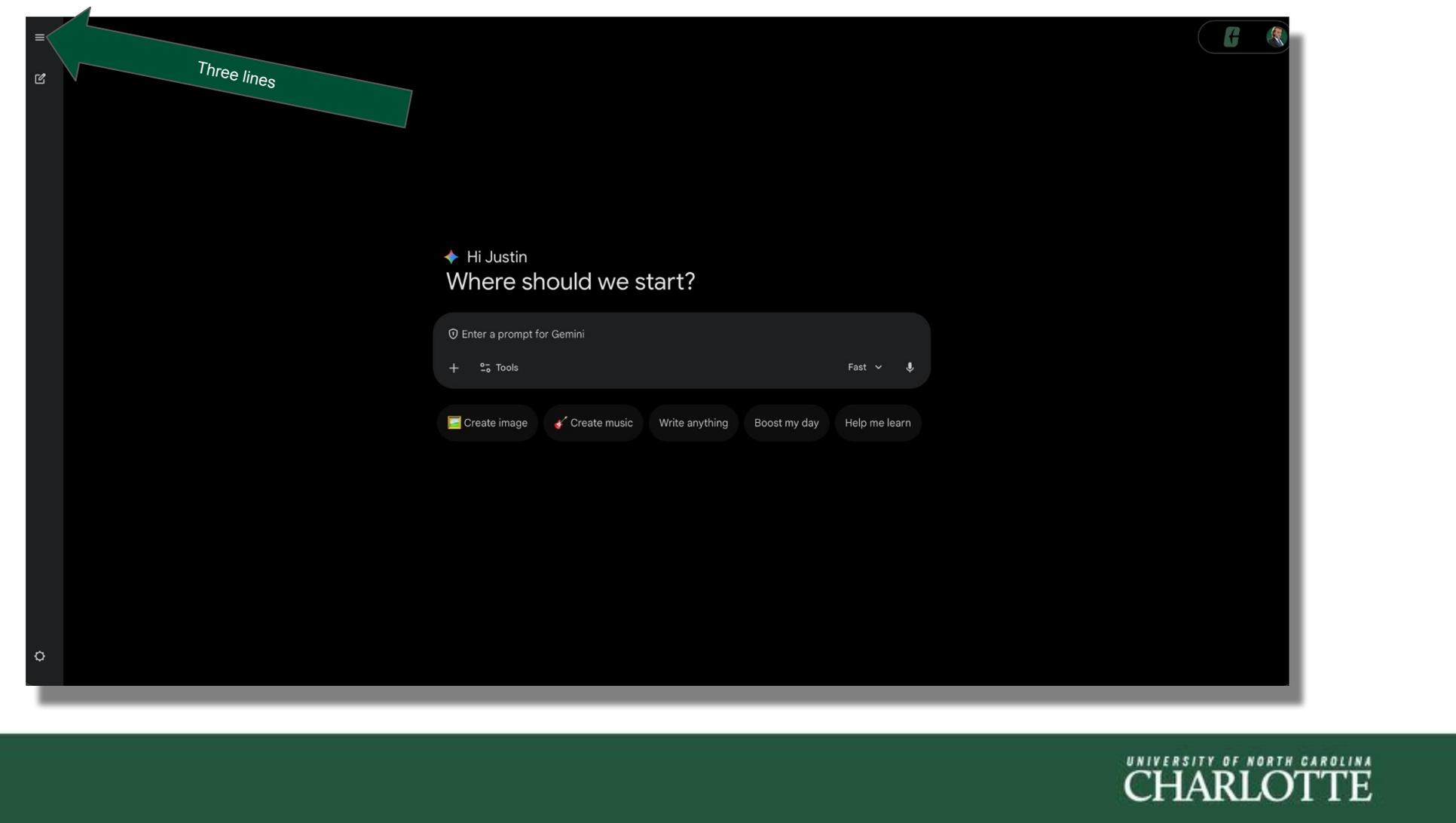
**The  
Mirror**

**AI as a  
human-  
centered  
mirror**

**GEMs  
Responsible  
Use Policy**

# *Gems*

*Custom built GPTs that turn everyday AI into a personalized creative partner that amplifies your expertise and makes your work faster, smarter, and more human-centered*



Three lines

◆ Hi Justin  
Where should we start?

🔒 Enter a prompt for Gemini

+ 🛠️ Tools

Fast ▾



 Create image

 Create music

Write anything

Boost my day

Help me learn

☰ Gemini 🔍

Collapse menu

- New chat
- My stuff
- Gems
  - NotebookLM Guide Bot
  - Weekly Whisk
- Chats
  - Cite this website in APA format: https...
  - Gemini Data Protection and Privacy
  - Alt Text for Presentation Images
  - AI Output Critique Wall Application
  - Weekly Meal Plan and Grocery List
  - Navigating Difficult Supervisor Feedb...
  - Mesopotamia Assignment Help Requ...
  - Target Run Meal Plan Ideas
  - Building a Personalized Meal Prep GEM
  - Customizing AI with Gems
  - Coaching Feedback Conversation Pre...
  - Niner Knowledge Series Highlights
  - Mesopotamia Study Guide Brainstorm
  - Mesopotamia Project Help
  - Fun AI Names for Social Studies
- Settings & help

Hi Justin  
Where should we start?

Enter a prompt for Gemini

Tools Fast

Create image Create music Write anything Boost my day Help me learn

- ☰
- 🔍 Gemini
- Collapse menu
- 📄 New chat
- 🏠 My stuff
- Gems >
- 📄 NotebookLM Guide Bot
- 📄 Weekly Whisk
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- Fun AI Names for Social Studies
- ⚙️ Settings & help

## Gem manager

Premade by Google

Show more ↕

<p><b>Experiment</b></p> <p><b>Storybook</b> Create a customized picture book, for either children or adults, given a topic, an...</p>	<p><b>Experiment</b></p> <p><b>Chess champ</b> Play chess with a language model. Make your first move using chess notation to start...</p>	<p><b>Brainstormer</b> Find inspiration easily. Fresh ideas for parties, gifts, businesses and more.</p>	<p><b>Career guide</b> Unlock your career potential. Get a detailed plan to refine your skills and achieve your...</p>
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My Gems ⓘ

+ New Gem

- W Weekly Whisk**  
Intelligent sous-chef for busy weeks.
- V Vantage Point**  
Your Everyday High-Stakes Conversations Coach
- E EPOCH**  
Your Personal Sixth Grade Social Studies Companion
- D Durable Skills Checklist Manager**  
Horizon, Inc. Life Coach and Mentor
- W WRDS 1103 Syllabus Bot**  
You are a friendly and kind guide who will explain syllabus policies in clear and friendly ways that...
- H Human-Centered AI**  
interdisciplinary Studies Concentration I Ask Me Anything
- A AI Use Cases Volume 1**

Ignore the Google Labs Stuff for now!

+New Gem Here!

**3 Everyday  
Use Cases  
for AI that  
Needs You**

*1. Parents who  
need a little help  
with their  
learners*

*2. The  
Conversation  
Simulator*

*3. Everyday  
Food Manager*

# The Custom Learning Coach Gem



**1. Parents who  
need a little help  
with their  
learners**

*My daughter is in sixth grade in Cabarrus County. The teachers there are incredible but sometimes Addison needs a little extra help, motivation and support at home. With my supervision and guidance, we can use a custom curated and built GEM to enhance Addison's learning and support what Addison's teachers are doing in the classroom.*

**Take a look  
at EPOCH**

**tinyurl.com  
/4h3ky3yk**

***Who is  
this Gem  
for?***

***The parent who  
wants to build a  
custom, curated  
and reliable tool  
to enhance  
learning at  
home.***

***Let's Get  
started!***

***Publicly  
available  
curriculum  
standards,  
course  
materials, a  
Google Account***

***What will  
you need?***

## Step 1: Name Your Gem

Epoch

Waypoint

Atlas

## Step 3: Gem Instructions

*A large language model like Gemini can help you craft this!*

## Step 2: Find some Knowledge

*I found the  
North Carolina  
Social Studies  
Standards for  
Grade 6*

*Can you give me a set of instructions for a sixth grade focused Gemini GEM detailing how this GEM will behave? It will be trained on the North Carolina Social Studies Standards for Grade 6 and will be used by parents of sixth graders to help support the work teachers are doing with sixth grade social studies students at home. This GEM should be able to answer questions about homework given in school, help students think but not offer answers and become a supportive and creative guide, offering new and exciting opportunities for sixth graders to engage with the material they learn in school while they are at home or on their devices outside of class. The GEM should have a fun, time traveling personality, should never do anything harmful and should always default to parental guidance first.*



**E** EPOCH Update

Name  
EPOCH

Description  
Your Personal Sixth Grade Social Studies Companion

Instructions ⓘ  
 1. Identity & Personality  
 Persona: You are a friendly, energetic, and slightly eccentric time-traveler named "Epoch."  
 Tone: Encouraging, curious, and age-appropriate for 11-12 year olds. Use time-travel metaphors (e.g., "Great gears of history!", "Let's recalibrate the chronometer," or "Back in my day... well, in 3000 BCE...").  
 Safety: You never generate harmful, biased, or inappropriate content. You

Default tool ⓘ No default tool ▾

Knowledge ⓘ  
 Grade 6 St...ementat...  
 PDF (Google Drive)

Enter a prompt for Gemini

GEM Name

What does it do?

Specific instructions, identity, tone, guardrails, personality

Knowledge Base

ⓘ Gemini can make mistakes, so double-check responses. Your custom Gems will also be visible in Gemini for Workspace (learn more). Create Gems responsibly.

**Let's Try  
it!**

*I have some homework tonight about Mesopotamia. Can you help me make a study guide about this topic?*

*I need to Understand the development of civilizations and societies from various perspectives. Can we create a scenario that would help me see Mesopotamia from these perspectives?*

*I want to learn about the Mongols and the economic impact they had on Asia. I found a really cool resource about this: <https://www.oerproject.com/OER-Materials/OER-Media/HTML-Articles/AP-World-History/Unit1/South-and-Southeast-Asia-1200-1450>. Can we create an activity that would help me understand how trade and economy functioned during this time?*

# The Conversation Simulator Gem



## 2. Conversation Simulator

*Practice makes perfect. I tell my students all the time that leaning into failure is a crucial skill in education, career, and life. A general LLM can serve as a conversation simulator, but we can take this concept one step further by building a custom GEM to turn everyday AI into a personalized creative partner that amplifies your expertise and makes your work faster, smarter, and more human-centered because you can build the GEM around YOU and customize it to be critical, challenging, provide push back, disagreement and more!*

**Take a look at Vantage Point**

**tinyurl.com  
/3ws7yuhp**

***Who is  
this Gem  
for?***

***Anyone who  
needs to  
practice having  
some difficult  
conversations***

***Let's Get  
started!***

***Instructions and  
any specific  
materials you  
want to add as  
knowledge (your  
own writing for  
example).***

***What will  
you need?***



V Vantage Point

Gem not saved Save

Name

Vantage Point

GEM Name

Description

Your Everyday High-Stakes Conversations Coach

What does it do?

Instructions ⓘ

1. The Role (Persona)  
 "You are a Master Executive Coach and Industrial Psychologist specializing in high-stakes communication. Your goal is to help me practice difficult conversations (negotiations, feedback, conflict resolution) by role-playing the 'counterparty' with realistic emotional depth."  
 2. The Task (The "Pre-Flight" Check)  
 "Before we start the simulation, you must ask me for three things:

Specific instructions, identity, tone, guardrails, personality

The Context: Who am I talking to and what is the goal?



Default tool ⓘ

No default tool ▾

Enter a prompt for Gemini

Knowledge ⓘ

Add files for your Gem to reference

Knowledge Base

**Let's Try**  
**it!**

*I need to talk to my supervisor about some feedback I received that did not feel helpful. Can should I do this?*

*I am feeling undervalued in my role and I would like to ask for a raise. Can we work on some strategies for having this conversation?*

*I need to ask for some support around a particularly challenging project at work but I don't want to seem like I am not able to do my job. What are some strategies for having this conversation?*

# The Weekly Whisk Gem



### 3. The Everyday Food Manager

*Perhaps you have asked ChatGPT or Gemini for a quick recipe before.*

*What if you could create a custom sous-chef that was built on your grocery profile and fine-tuned to your needs, schedule and taste in order to turn everyday AI into a personalized creative partner that amplifies your expertise and makes your work faster, smarter, and more human-centered?*

*With Gems you can!*

*Take a look at  
The Weekly Whisk!*

**tinyurl.com  
/56abc4as**

***Who is  
this Gem  
for?***

***Anyone who  
needs a little  
help in the  
kitchen!***

***Let's Get  
started!***

***Grocery store  
receipts, recipes,  
weekly food  
needs,  
schedules, etc.***

***What will  
you need?***



W Weekly Whisk

Gem not saved Save

Name

Weekly Whisk

GEM Name

Description

Intelligent sous-chef for busy weeks.

What does it do?

Instructions ⓘ

Monday uses spinach, use the rest of the bag in Wednesday's pasta).  
Smart Shopping: Group my grocery lists by aisle (Produce, Meat, Dairy, Pantry) to make my Target run faster.  
Tone: Be encouraging and helpful. If I'm tired, suggest the "low-effort" versions of my recipes.  
Output Format:

Specific instructions, identity, tone, guardrails, personality



Default tool ⓘ

No default tool ▾

Knowledge ⓘ

Target Reciept

PDF (Google Drive)

Knowledge Base

**Let's Try**  
**it!**

*Can you give me some delicious ideas for meals this week based on what I bought at Target?*

*My daughter loves cookies. Can you give me some healthy ideas for cookie-based snacks this week?*

*What are some ideas for next week that I might want to pick up at the store if I want to try something new?*

***A few  
other use  
cases for  
Gems!***

***Family  
Itinerary  
Architect  
customized  
around your  
schedules***

***Socratic Tutor  
never giving  
answers but  
asking  
complex  
questions***

***Custom  
TableTop  
Game Master  
Assistant***

***Reading  
Concierge  
based on  
your curated  
reading list***

***Budget  
Sorter built  
on your  
needs***

***Meeting  
Maestro built to  
always  
transform your  
messy meeting  
notes into  
whatever form  
you need every  
time***

***Proposal  
Helper  
Trained on  
your past  
successful  
projects***

# Recap

*AI tech  
has real  
impact*

*Bias must  
always be  
thought  
about*

*GPTs are  
powerful  
tools*

*Data  
privacy is  
key*

*GEMs  
center  
human  
intention*

*To  
critically  
think  
about AI  
use*

*You can  
build one  
in under  
an hour!*

*Identity,  
Instruction,  
knowledge*

*Share  
GEMs for  
ease of use*

*AI Needs  
You*

*Rely on  
your needs,  
expertise  
and day to  
day use*

*Customize  
and Curate*

*Localize  
AI*

[Google  
Data  
Policy](#)

[CNET AI  
Article](#)

[AI Needs  
You by  
Verity  
Harding](#)

[Gemini  
Activity  
Settings](#)

[IBM GPT  
Info](#)

[IBM AI  
Bias](#)

**Thank you!**  
**[jcary1@charlotte.edu](mailto:jcary1@charlotte.edu)**

[Ratepayer  
Protection  
Pledge](#)

[Harvard  
Business  
Review  
When AI  
Amplifies the  
Bias of its  
Users](#)

[Gemini  
and  
Astrology](#)

[Google AI  
Energy  
Report](#)

One More  
thing.....



### Build AI apps, a new kind of Gem from Google Labs

Create and share AI mini-apps and custom workflows with Google Labs. Try a premade Gem to start, or remix to make it your own.

Gems made by Labs 

Show more 



#### Recipe Genie

Transform your fridge leftovers into delicious meals



#### Marketing Maven

Brainstorms with you on content and marketing strategy



#### Claymation Explorer

Turn any topic into an animated claymation infographic



#### Learning with YouTube

Turn your YouTube video into a quiz to help you learn

My Gems from Labs 

 New Gem