

Instructional Technology

- Register for today's session in Eduphoria.
- You must be registered for attendance.
- Attendance will be completed at the end of the day.





Introduction to Artificial Intelligence

Seguin ISD





Susan F. Reeves

Consultant, Digital Age Learning

Google for Education Certified Innovator & Trainer

Project Director, ESC-20 CS Pipeline

susan.reeves@esc20.net

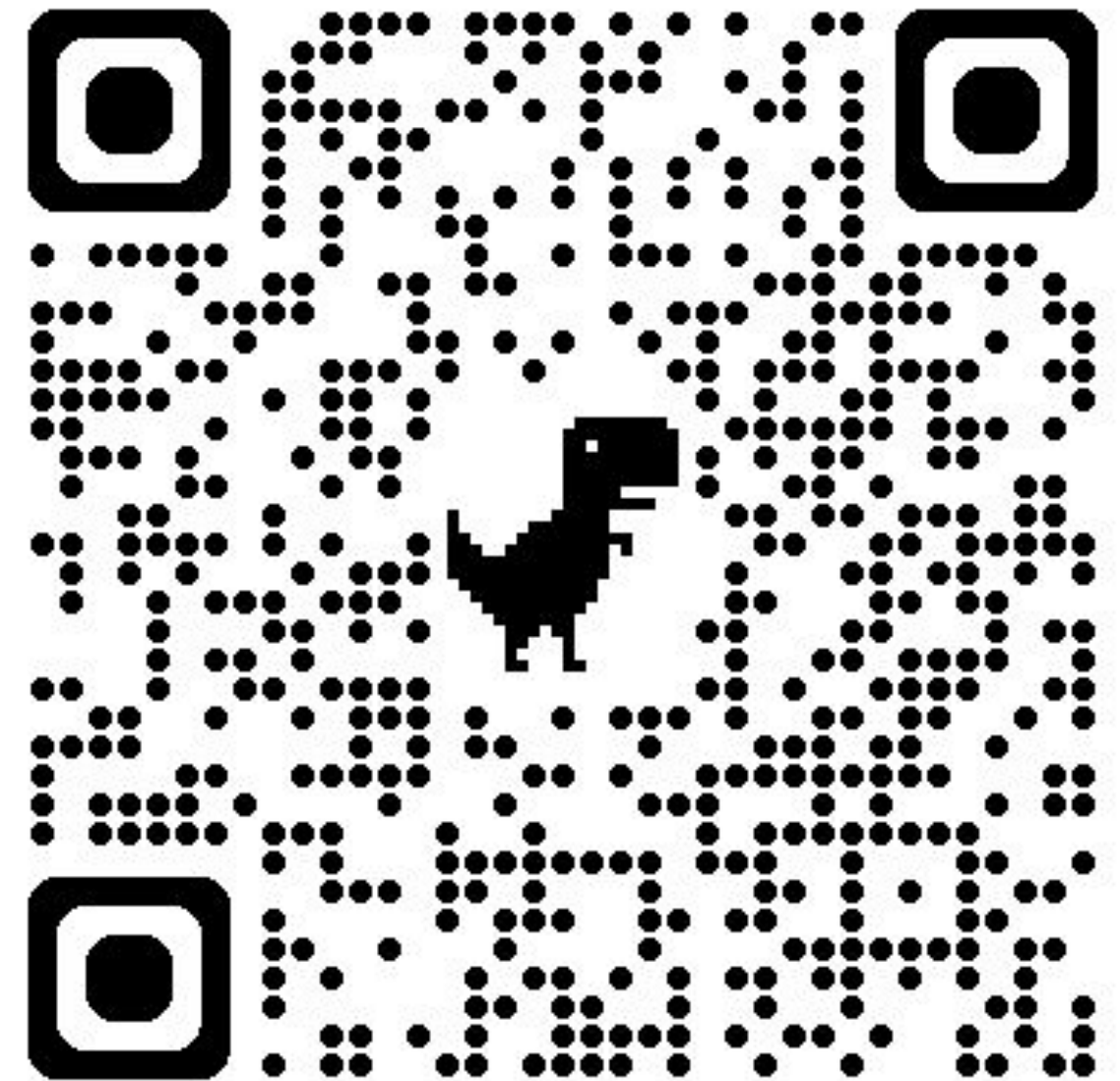
AI at Seguin ISD

Seguin ISD AI Implementation



AI Teacher Hub:

www.seguin.k12.tx.us/page/tech.AI



The background is a dark, textured surface. In the upper left, there's a yellow and orange abstract shape. To its right is a grid with several colored dots (yellow, green, red). Further right is a magnifying glass with a blue handle and a silver frame, focusing on a small white object. In the lower left, there's a green pixelated shape. In the lower right, there's a red abstract shape.

- 5 must-knows to get started with

Generative AI

Seguin ISD AI Hub



Google
Gemini



Notebook LM



Reference
Guide



AI Literacy
Overview



AI
Limitations



Prompting
101



AI for
Teachers



Gemini Gems
Overview

Artificial Intelligence Defined



The theory and development of computer systems able to perform tasks that normally require human intelligence.

Oxford Languages Definition



Visual Perception

Enabling systems to identify, process, and interpret visual inputs from the world.



Speech Recognition

Translating spoken language into text for computer systems to analyze and process.



Decision-Making

Analyzing data patterns to make structured, logical choices without human bias.



Language Translation

Seamlessly bridging communication barriers by translating text and speech across systems.

Machine Learning



Systems that can learn and adapt without following explicit instructions, by using algorithms and statistical models to analyze and draw inferences from patterns in data.

Definition from Oxford Languages



Predictive Analytics

Predicting stock market shifts using complex historical patterns.



Facial Recognition

Condensing facial scans to make verification and recognition easier.



Targeted Marketing

Creating highly specific marketing groups based on historical purchasing data.



Smart Systems

Powering autonomous driving networks or operating smart home assistants.

Natural Language Processing



Natural language processing (NLP) is a branch of artificial intelligence and computer science. It helps computers read, hear, speak, and write human language.

Definition from IBM



Speech to Text

Converting spoken audio into structured, readable digital text.



Translation Tools

Translating text and spoken language fluidly across different languages.



Chatbots

Simulating human-like interactive conversations to assist users.



Text to Speech

Synthesizing written text into high-quality, natural spoken audio.

Large Language Models



A type of artificial intelligence program trained on massive amounts of text (usually from the internet). It learns the patterns and rules of human language to predict and generate clear text, answer questions, and translate languages.

Definition from Stanford University



Gemini

Google's flagship conversational AI and multimodal model.



Gemini Notebook

An AI-powered research assistant for notes and docs.



Copilot

Microsoft's integrated AI assistant for productivity and code.



ChatGPT

OpenAI's widely-used generative conversational model.

Generative AI



Generative AI is a type of artificial intelligence that creates new content—such as text, images, audio, video, and code—in response to user prompts.

Definition from Microsoft



Text & Code

Generating high-quality articles, code, and structured text summaries.



Images & Art

Creating realistic photos, custom illustrations, and design layouts.



Audio & Voice

Synthesizing natural spoken audio, sound effects, and compositions.



Video & Motion

Producing animations, presentations, and dynamic video edits.

The Relationship Between AI, Machine Learning, Natural Language Processing and Large Language Models

ARTIFICIAL INTELLIGENCE (AI)

THE BROAD FIELD:
Creating systems that can perform tasks requiring human-like intelligence.

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MACHINE LEARNING (ML)

SUBSET OF AI:
Training systems to learn from data and improve from experience.

NATURAL LANGUAGE PROCESSING (NLP)

FIELD WITHIN ML: Enabling computers to understand, interpret, and generate human language.

LARGE LANGUAGE MODELS (LLMs)

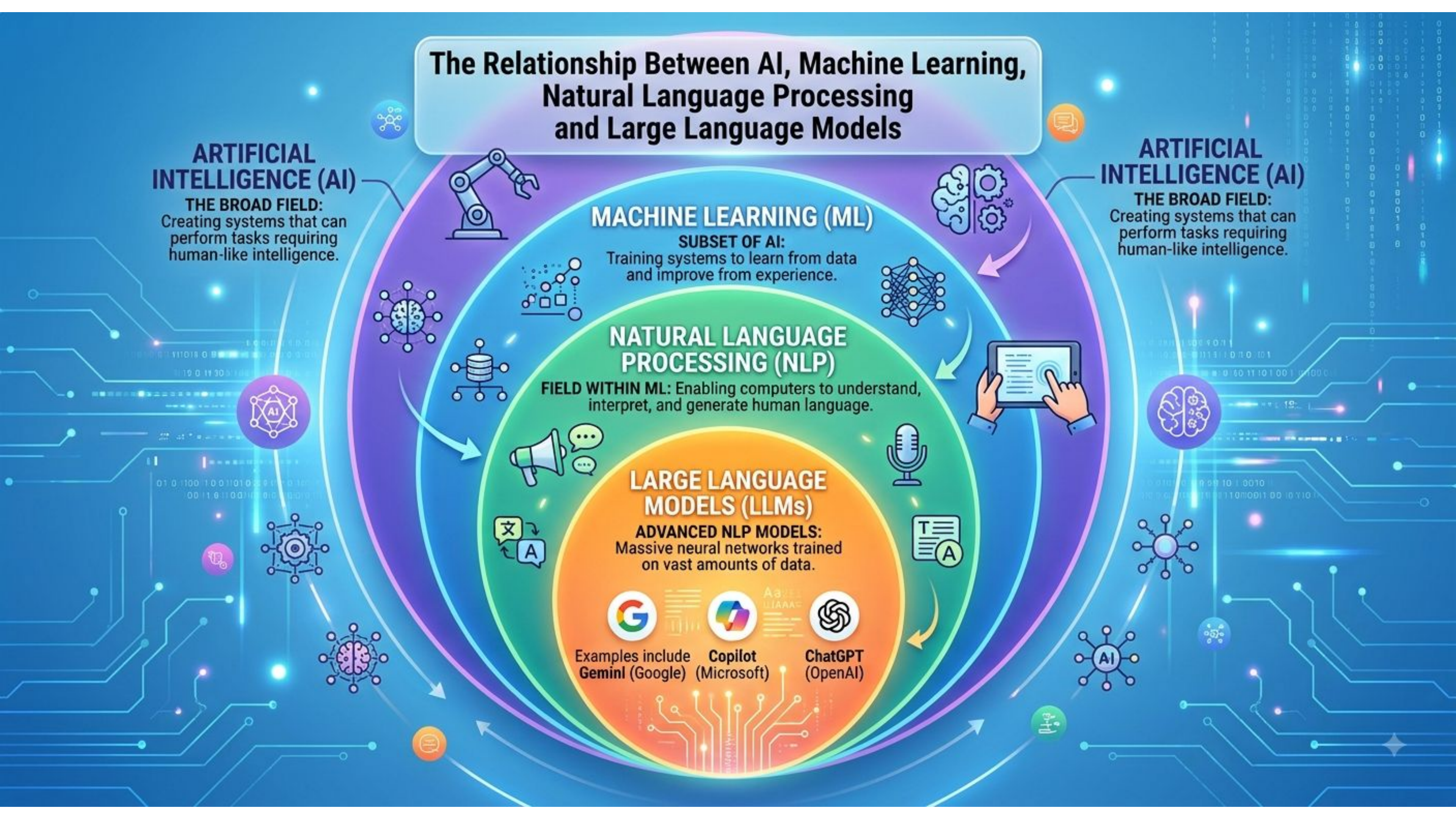
ADVANCED NLP MODELS:
Massive neural networks trained on vast amounts of data.

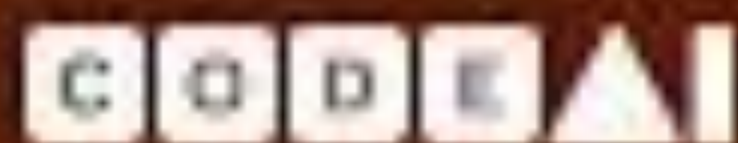


Examples include
Gemini (Google)

Copilot
(Microsoft)

ChatGPT
(OpenAI)





HOW AI WORKS

CHATBOTS & LARGE LANGUAGE MODELS

6/10



Seguin ISD Authorized AI Tools



 **Must Use District Google Workspace for Education Accounts only**



Google Gemini

Direct access to Google's highly capable AI model. Use it as an everyday partner for writing, planning, learning, and reasoning tasks.



Gemini Gems

Customizable AI Coaches designed to guide, tutor, and support specific educational practices, roles, or administrative workflows.



Gemini Notebook

A versatile content generation hub designed for academic and creative research.

Includes support for:

Text, Image, Video, Music, Slides, Infographics, Quizzes, and more.

Why Google AI Tools?



Workspace Integration

Google AI tools are now fully integrated into district **Education Workspace** accounts. Access is securely managed and controlled by district administrators.



Data Privacy

When used within your school account, Google **will NOT use** your sources, interactions, or prompt inputs to train the AI engine. Your work remains completely private.



Access & Rollout

Usage is currently **restricted to adults**. Secure access for secondary students is projected to roll out before the end of the fall semester.

Data Privacy Do's & Don'ts



From your District AI Quick Reference Guide

Rule	DO (Approved Practice)	DON'T (Prohibited Practice)
Account Use	Use district Google Workspace accounts exclusively for school tasks.	Never use personal Gmail or unapproved third-party accounts or tools.
PII Protection	<i>"Write a feedback summary for a student struggling with fractions."</i>	<i>"Write feedback for [Student Name] who has an IEP for Dyscalculia."</i>
Safety Guardrails	Report unexpected behavior or filter gaps to tech leadership.	Never attempt "jailbreaking" or bypassing security filters.

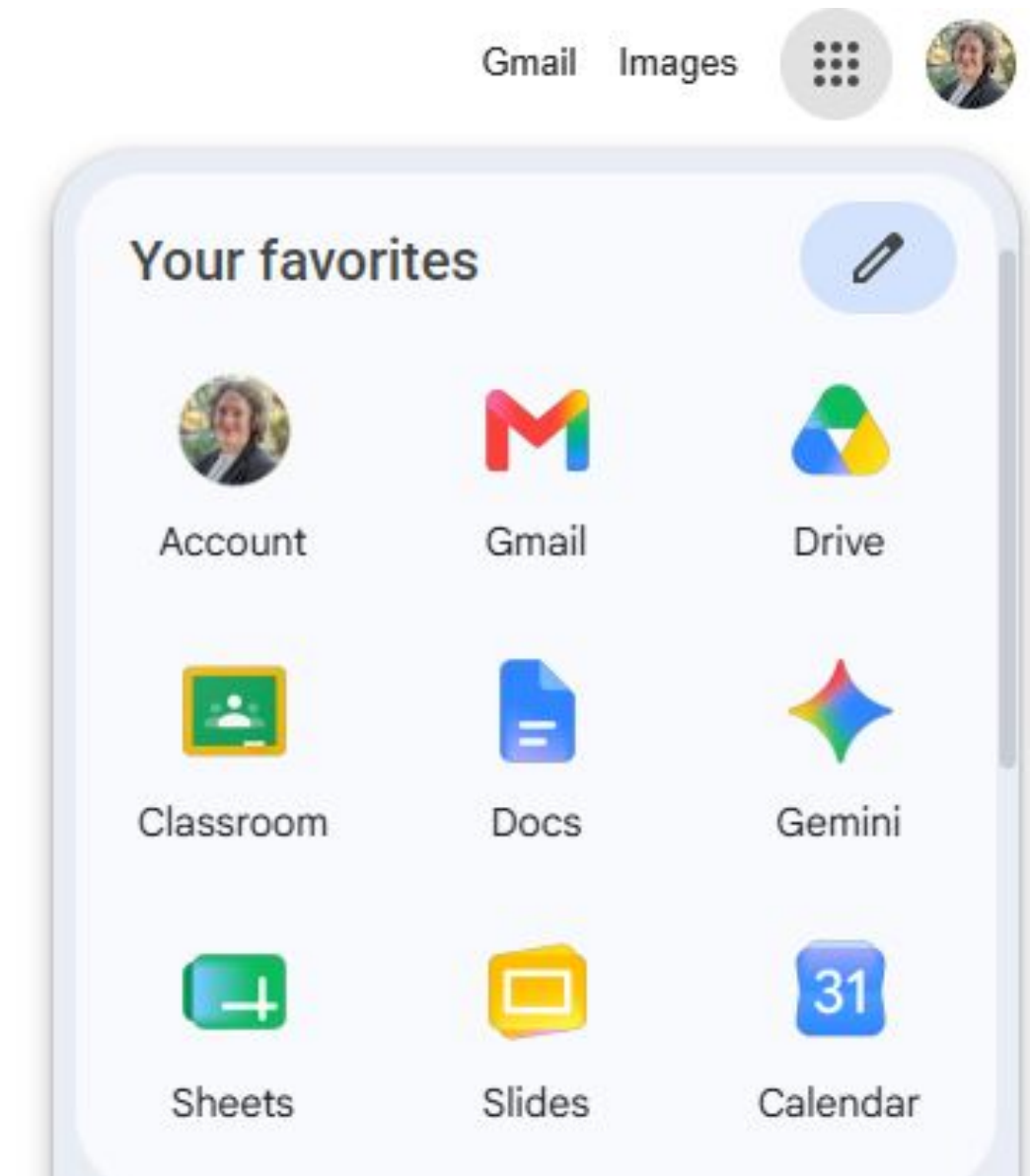
Demonstration: Gemini



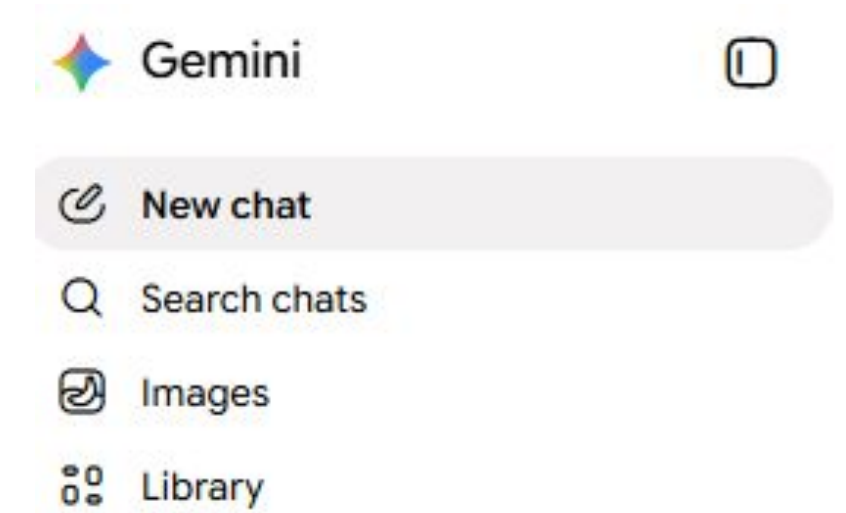
[Gemini.google.com](https://gemini.google.com) or Google Apps Grid



Pencil to edit order of listings in your grid.



Demonstration: Gemini



Expandable Menu, click on Gemini Logo to open Sidebar.

New Chat to begin conversation.

**+ to Upload files from computer, Add from Google Drive
or access other capabilities, such as Canvas to make Slides.**

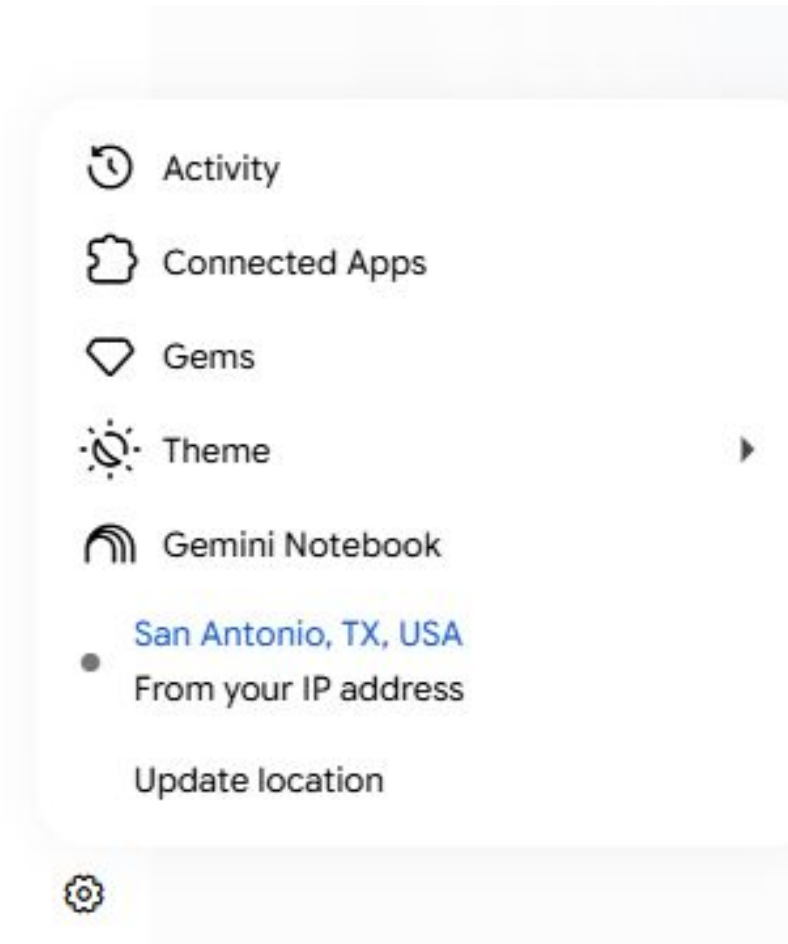
+ Microphone to dictate

Results can be copied or sent straight to a Google Doc.

Demonstration: Gemini Gem



First time locating, click on settings Gear



After you have utilized a Gem, the Gem icon will appear on your top left menu.

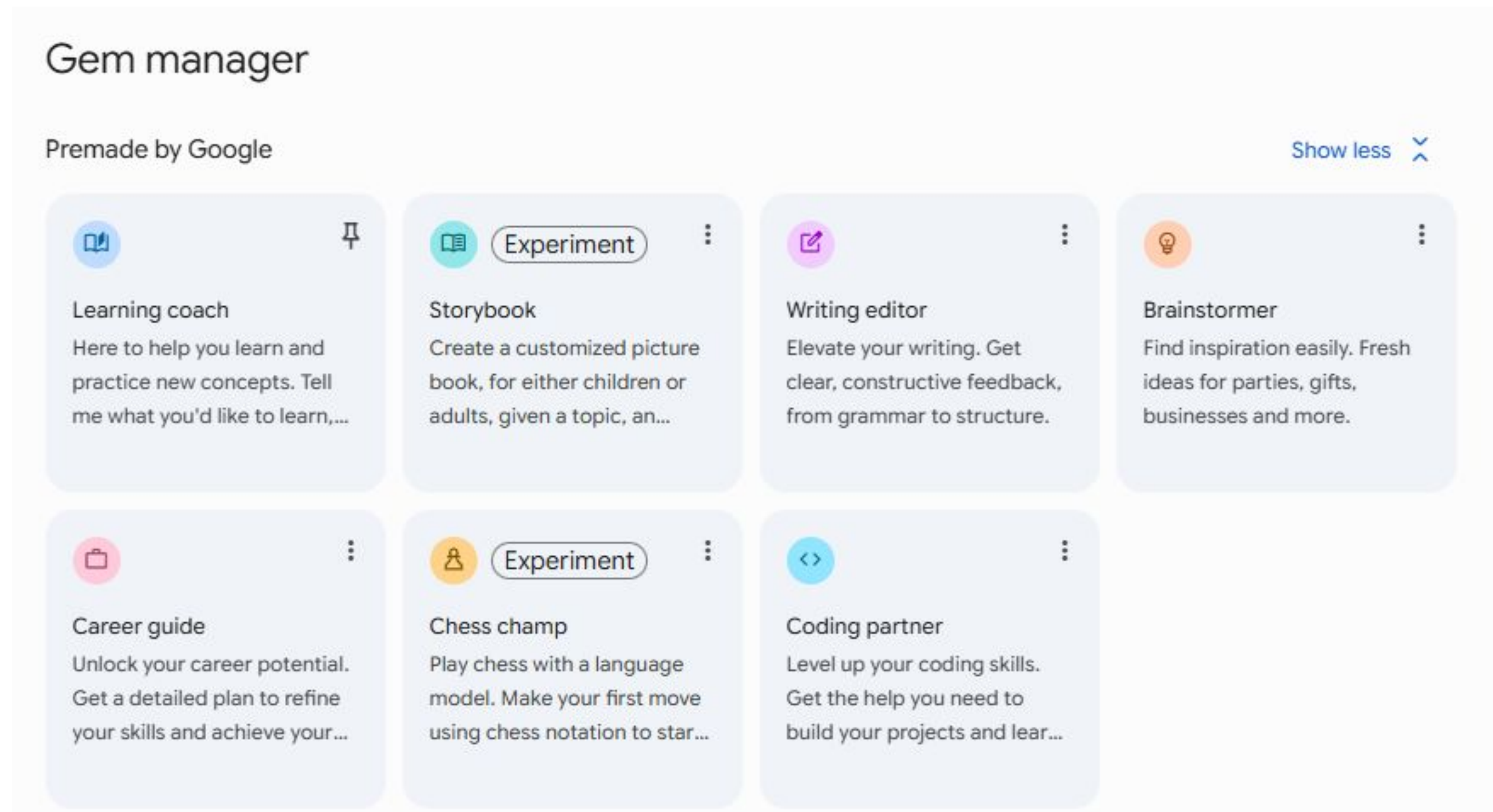
Demonstration: Gemini Gem



Google Premade

Three dot menu to copy

or scroll down to



Demonstration: Gemini Notebook



notebook.google.com or Google Apps Grid



Premade Notebooks you can review from Open Stax

Create Your Own Notebook, add your own sources (because of your Education Plus accounts, each Notebook can contain 100 sources.)

Next Steps



Watch for announcements on follow-up AI training here in the District!

Instructional Technology

Attendance End of Day

You must be enrolled in the course to earn attendance credit.

IF you are ***NOT*** already registered, please raise your hand.

<https://bit.ly/4cmqMxs>



Thank you for attending today's session on Instructional Technology.

Please provide feedback on today's PD session.



LINK: tinyurl.com/seguinpdsurvey



Link to these Slides



bit.ly/esc20aiintro

