

Lifelong Learners GTX Fall 2026 PRESENTATIONS

Understanding Generative and Agentic AI

A practical guide to navigating the next technological shift.

Steve Chavez

AI isn't coming — it's already here.

Today we will demystify the two kinds of AI you are most likely to encounter, see them in action, and establish clear rules for what to trust and what to question.



Your Facilitator (why should you listen to anything I say?)



Change Strategist

Retired executive from Accenture (global management consulting). Expertise in guiding teams through overwhelming transitions.

Mission in retirement

On a mission to make AI practical for a 'Monday morning'.

What we are doing this morning

01 Define Generative AI

02 Define Agentic AI

03 Take a Quiz

04 De-Jargon

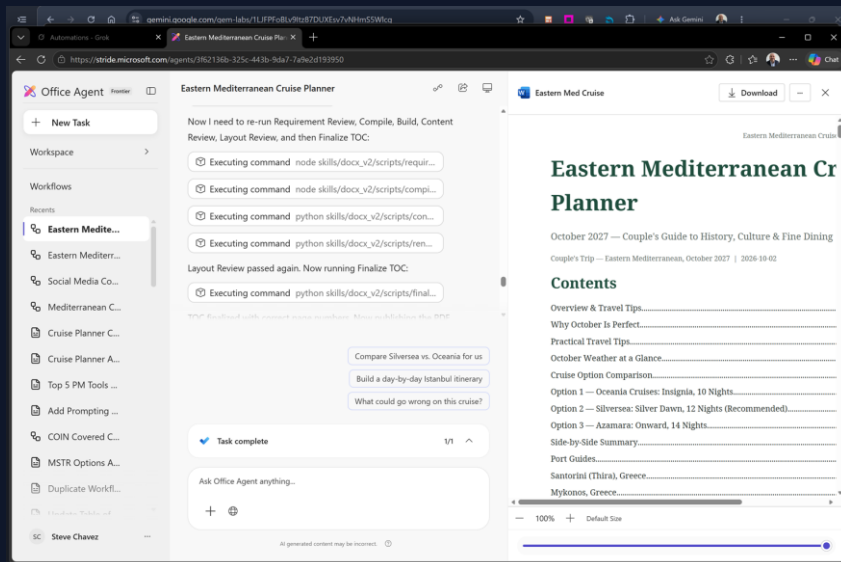
05 Audience Participation

06 Demo

07 Prompting (for Generative and Agentic AI, MD format)

Let's Get Started!

Watch Agentic AI Plan a cruise Microsoft



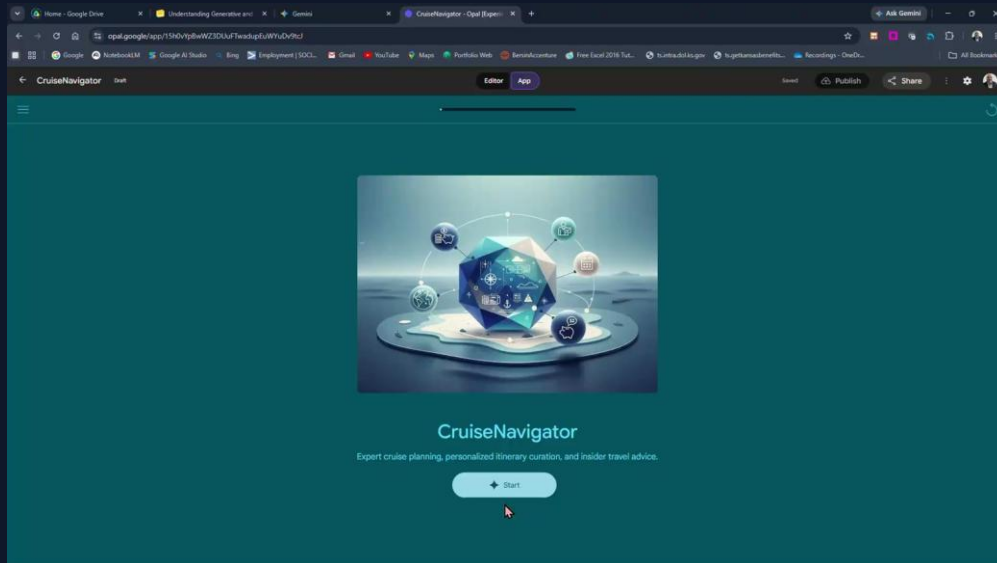
MS Office Agent

The Request-Response Model

The AI relies on an instruction set and the ability to call on skills, subagents, and APIs. Makes decisions, verifies, and rewrites until the mission is complete.

- ➡ Human gives input, or AI runs automatically
- ➡ AI analyzes, creates, confirms, decides, continues
- ➡ Only stops when goal/mission is complete

Watch Agentic AI Plan a cruise Google



Cruise Navigator

The Request-Response Model

The AI relies on an instruction set and the ability to call on skills, subagents, and APIs. Makes decisions, verifies, and rewrites until the mission is complete.

- ➡ Human gives input, or AI runs automatically
- ➡ AI analyzes, creates, confirms, decides, continues
- ➡ Only stops when goal/mission is complete

The Landscape of Modern AI Tools (unofficial quiz)

Leading AI LLMs, Platforms & Interfaces

Google: Gemini (Pro, Ultra, Flash)

Microsoft: Copilot (Pro, M365 Office Agent)

OpenAI: ChatGPT (GPT-4o, GPT-4 Turbo GPT-5, Astra)

Anthropic: Claude (5.5 Sonnet, Opus, Haiku)

xAI: Grok

Perplexity AI: Perplexity (Pro, Computer)

Quiz Time?

Raspberry Pi

The hobbyist standard.

Jetson Orin Nano

The AI edge powerhouse.

Do you know which one is built for high-performance AI?

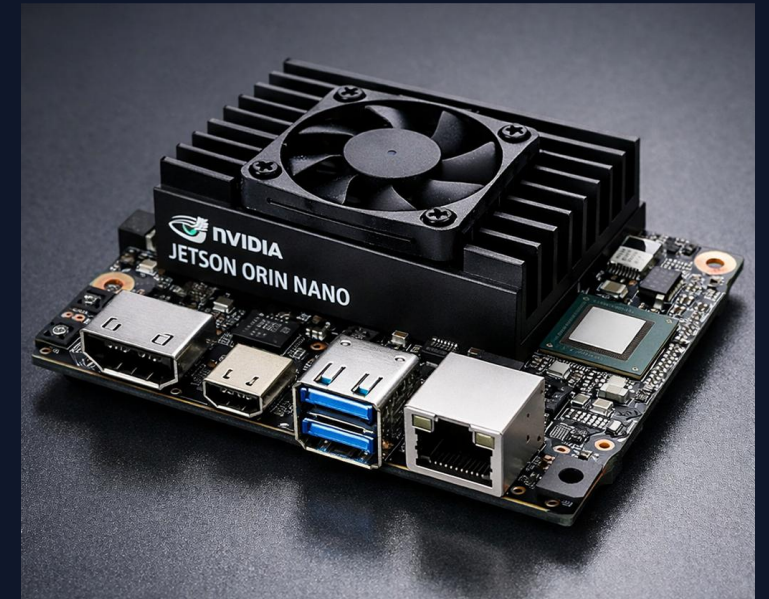
The Hardware Answer



Raspberry Pi: The General-Purpose Maker Board.
A versatile, low-cost computer built for education and DIY hobbyist projects.



NVIDIA Jetson Nano: The Artificial Intelligence Powerhouse. Specialized for high-performance AI and machine learning at the edge.



Quiz Time?

CPU

???.....Processing Unit

GPU

???.....Processing Unit

Do you know which one was originally built for AI?

Quiz Time?

CPU

Central Processing Unit

GPU

???...Processing Unit

Do you know which one was originally built for AI?

Quiz Time?

CPU

Central Processing Unit

GPU

Graphics Processing Unit

Do you know which one was originally built for AI?

Quiz Time?

Edge Computing

Processing data closer to the source for faster, real-time AI insights.

"Closer to the source" Where might that be?

Quiz Time?

Token

Words need to become numbers

Multidimensional Vector Space

Relationships and Probability

Which one comes first, the chicken or the egg?

Understanding the Language of AI



TOKENIZE

INPUT

The Token

Before AI can "read," it must translate text into a format it understands.

- Tokens are the atomic units of text (words, parts of words, or punctuation).
- Each token is assigned a unique numerical ID.



CONTEXT

Vector Spaces

Where the magic happens: placing tokens into a mathematical "map" of meaning.

- Tokens are plotted as coordinates based on their relationships to others.
- AI calculates the probability of the next word by measuring "distance" in this space.

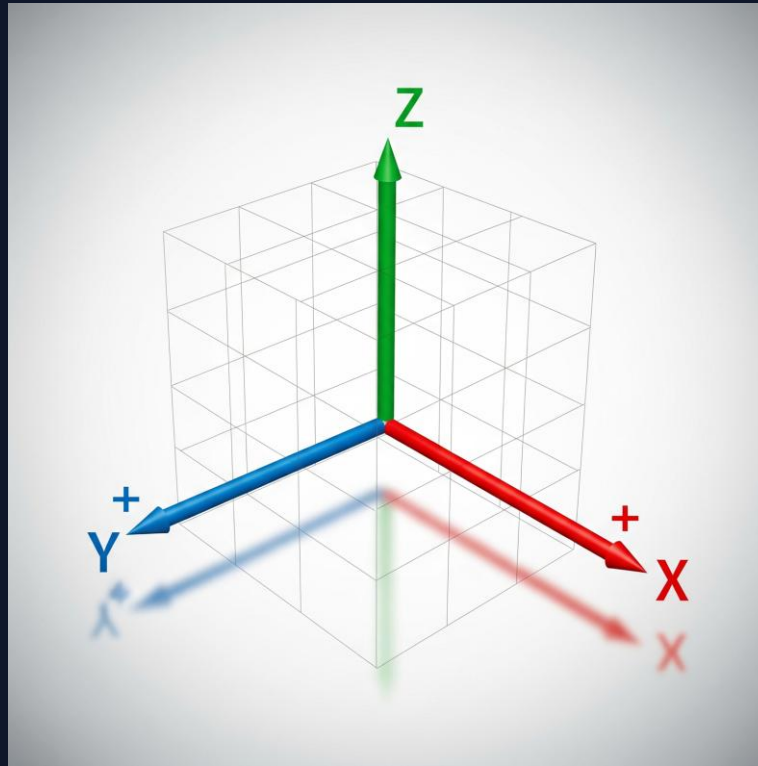
AI doesn't process ideas—it calculates the mathematical relationship between numerical tokens.

Demo Time!



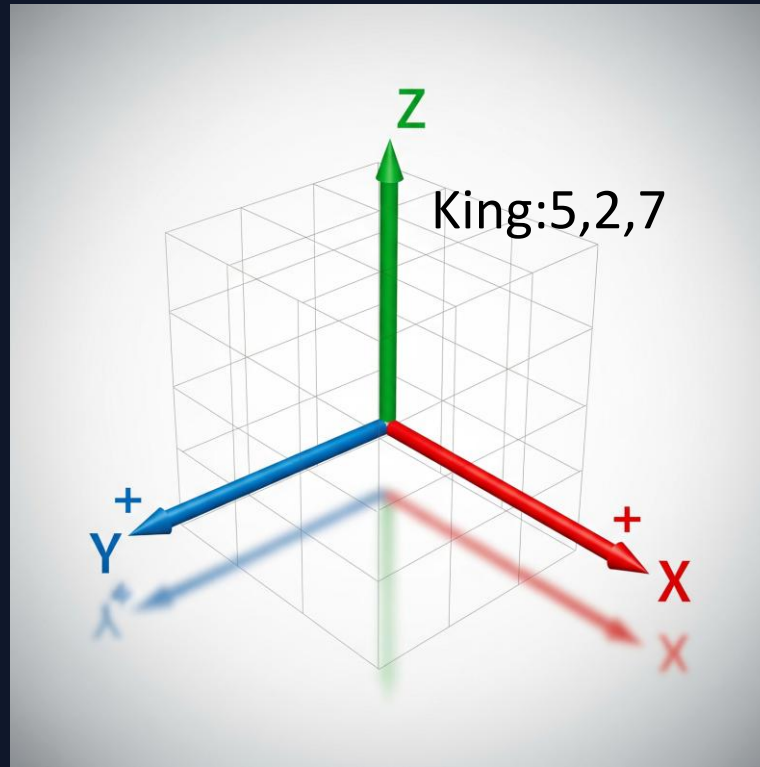
Teamwork!

Demo Time!



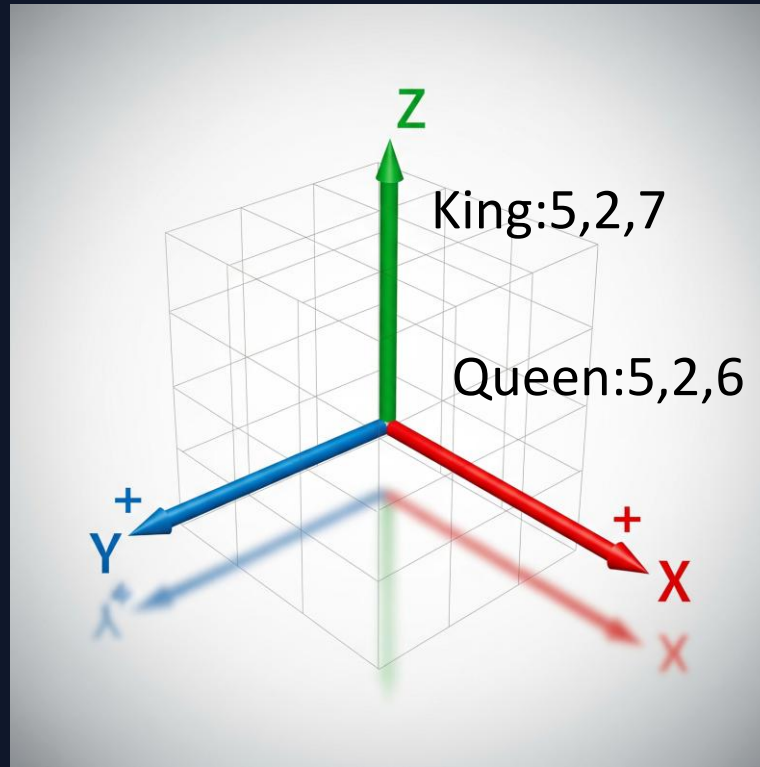
Teamwork!

Demo Time!



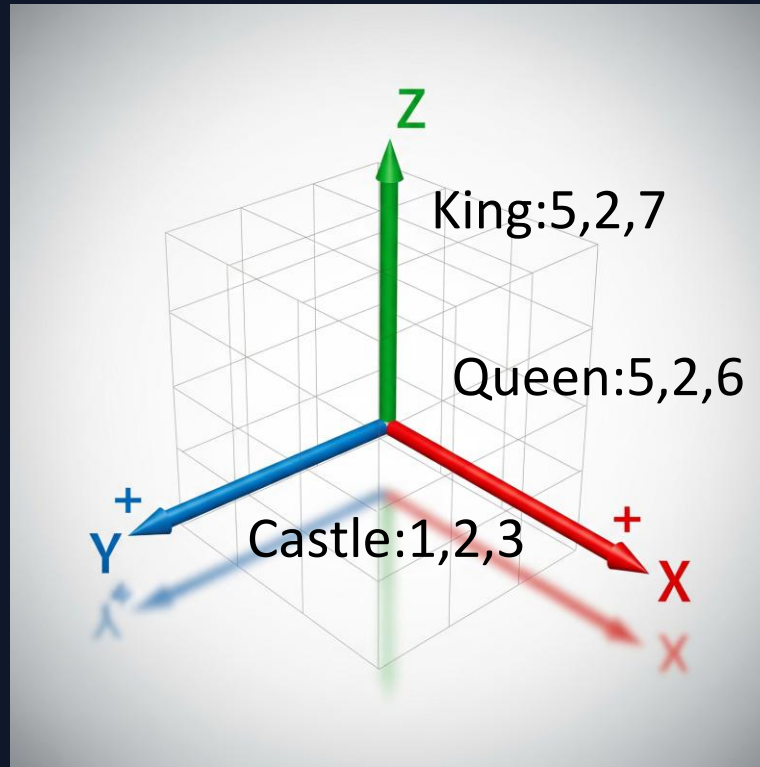
Teamwork!

Demo Time!



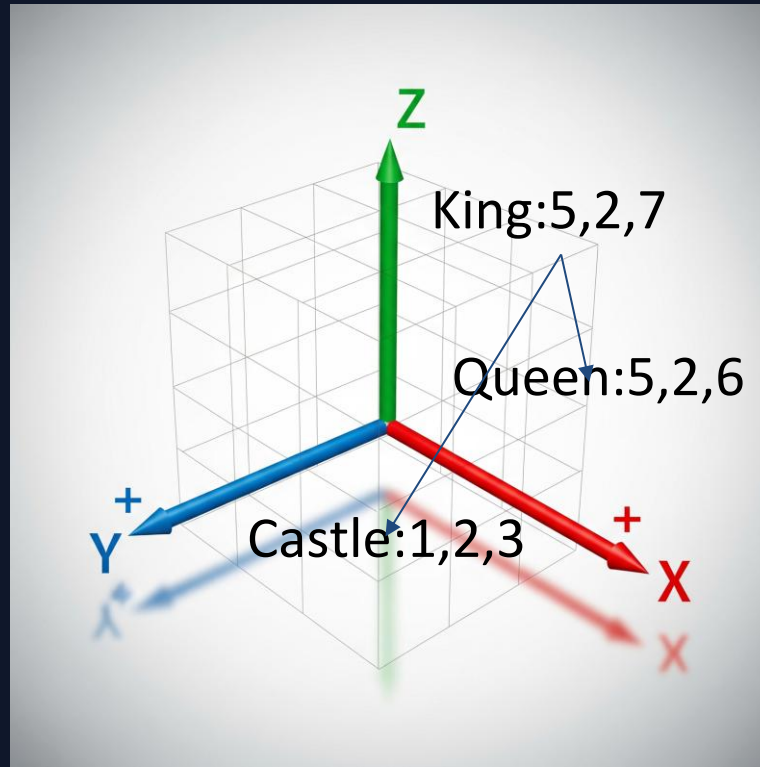
Teamwork!

Demo Time!



Teamwork!

Demo Time!



Teamwork!

Quiz Time?

GPT

The core engine behind modern conversational AI

Decoding the Jargon: What is a GPT?



Generative

It actively creates new content (text, code, images, music) based on learned patterns.



Pre-trained

It arrives with a vast foundation of knowledge, having already learned from massive datasets.



Transformer

Advanced architecture that processes whole sentences to understand context and relationships.

Generative AI

Generative AI Use Cases

- ✓ HEB Grocery Delivery List
- ✓ Portfolio Analysis
- ✓ Parking Ticket Dismissal
- ✓ Texas Road Trip plan
- ✓ Social Security Breakeven Point
- ✓ Spring Garden

Agentic AI

Agentic AI Use Cases

- HEB Grocery Delivery List
- Covered Call Roll Up
- Consulting Suite Automation
- Texas Road Trip execution
- Social Media Post Copywriter
- Social Media Auto-Post

What are you waiting for? Jump In!

Generative AI: The Creator

Powers

-  Drafting emails and documents.
-  Generating ideas and summaries.
-  Translating complex text.

Limitations

-  Cannot act on its own.
-  Requires constant prompting.
-  Stops working when human stops typing or speaking.

Prompting and Markdown Format

AI wants to know: WHO, WHAT, HOW

Who: Give AI a Role to play

What: Give AI a Goal/Mission to accomplish

HOW: Give AI a detailed instruction set to follow

Effective Prompting: The WHO, WHAT, HOW Framework

WHO

Give AI a Role

"You are an expert data analyst..."

"Act as a friendly teacher for beginners..."

"You are an experience options trader..."

"You are a cruise travel planner..."

A clear role sets tone, vocabulary, and expertise level.

WHAT

Give AI a Mission

"Summarize the sales history in 3 bullet points."

"Provide a practice routine built around the circle of fifths."

"Provide an analysis of today's trading and a roll-up strategy."

"Plan a cruise to the destination and within the budget I provide"

Be specific — vague missions produce vague results.

HOW

Give AI Instructions

"Use bullet points. Keep each under 20 words."

"Cite sources. Avoid jargon. Use plain English."

"Output as a table with columns: Task, Owner, Due."

"Include insider tips to help make the cruise more enjoyable"

Format, tone, length, and constraints all belong here.

 Tip: The more context you give, the better the output. Treat AI like a brilliant new colleague who needs full context.

Why Markdown? Formatting Your Prompts for Clarity

What is Markdown?

A lightweight text formatting language using plain symbols.

Heading 1 ## Heading 2

****bold**** **italic** ``code``

- Bullet item 1. Numbered item

> Blockquote --- Horizontal rule

Why use it in prompts?

- Structures complex instructions clearly
- Separates sections (role / task / constraints)
- Signals to the AI how to organize its response
- Makes long prompts scannable and editable

Quick Markdown Reference

Syntax	Result
# Title	Large heading
## Section	Medium heading
text	Bold text
<i>*text*</i>	Italic text
<code>`code`</code>	Inline code block
- item	Bullet point
1. item	Numbered list
> text	Quoted / highlighted block
---	Horizontal divider
[label](url)	Hyperlink

Prompting Example in Markdown Format

A well-structured Markdown prompt for an Agentic AI task:

Markdown Prompt

Role

You are an experienced cruise planner.

Task

Plan a cruise.....

Project Context

- **Project:** Adventurous Cruise
- **Budget:** Must follow budget guidelines
- **Blockers:** No travel during the summer

Output Format

1. Comprehensive plan
2. **List ports to be visited** (bullet list)
3. **Cost estimate** (bullet list)
4. **Next Steps** (numbered list)

Constraints

- Plain English; no jargon
- Tone: friendly and excited

WHO

Sets the AI's role and expertise level — shapes tone and depth of response.

WHAT

Defines the exact deliverable — no ambiguity about what's expected.

HOW

Specifies output format and constraints — controls length, style, and structure.

Result

AI produces a structured, on-brand report — ready to share with stakeholders.

Agentic AI: The Doer

It executes complex, multi-step workflows with a high degree of autonomy.

Key Powers

- ↔ Dynamic decision making.
- 🌐 Coordinating with other software.
- 🎯 Independent goal execution.
- 🔄 Repetitive task execution.



The **Agent-to-Agent Economy** is a rapidly approaching shift where AI systems coordinate decisions with one another.

The Coming Agent to Agent Economy (bye bye webpage)

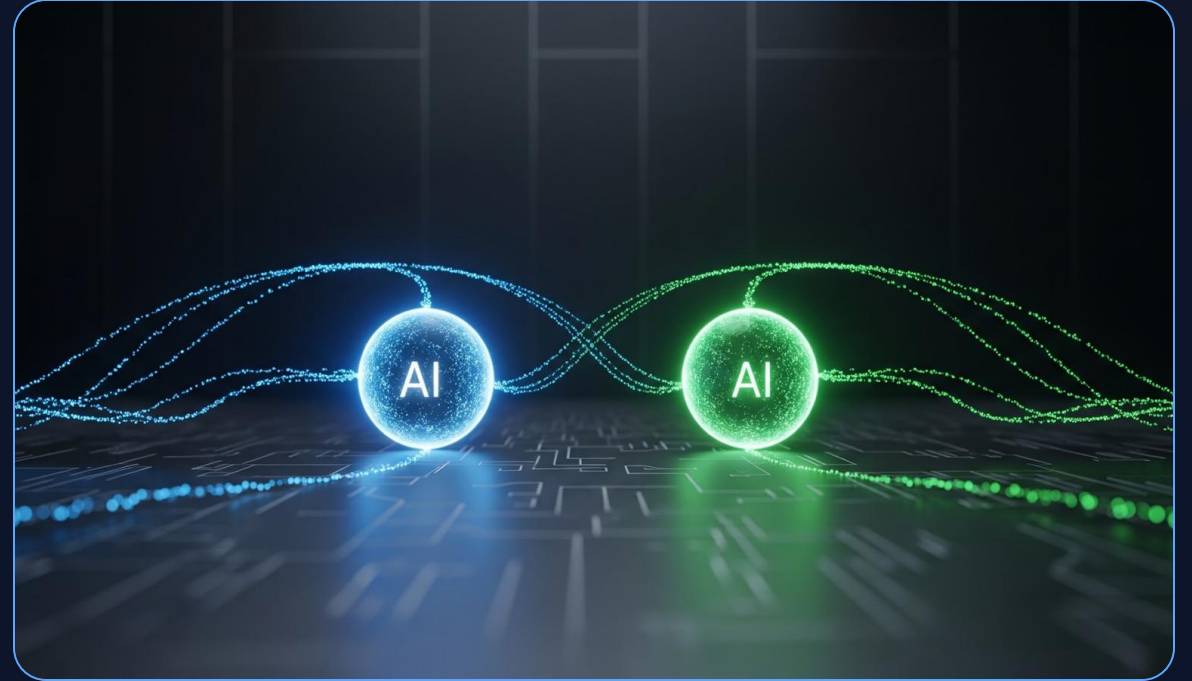
Imagine a world where your AI doesn't just show you a website, but talks directly to other AI systems to get things done for you.

What is it?

Instead of you clicking through pages, your personal AI agent coordinates with a store's agent to find, negotiate, and purchase what you need instantly.

Why it matters

Websites are built for human eyes. Agents use "digital handshakes" that are faster, more accurate, and happen entirely in the background while you live your life.



The end of "browsing" is the beginning of "executing."

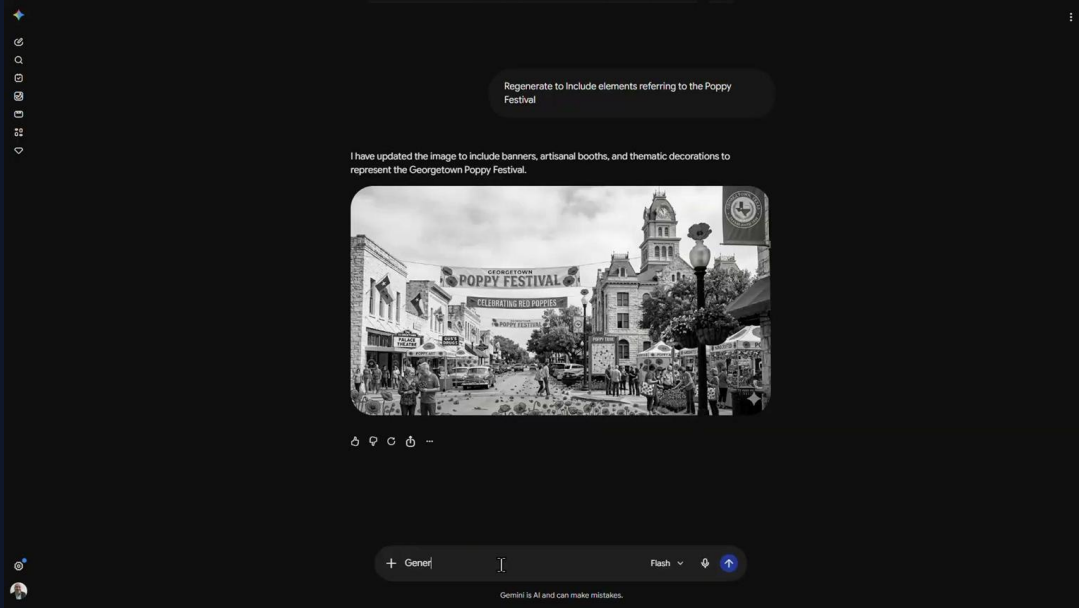
Computers talking to computers to save you hours of screen time.

Demo Time!



Generative AI: Google Gemi

Demo: Watch Generative AI Create an image



The Request-Response Model

The AI relies entirely on our ongoing guidance to improve the result. It starts with an initial instruction, produces a draft, and waits for refinement.

- ➡ Human gives input.
- ➡ AI provides output.
- ➡ Human edits and repeats.

Google Gemini

Quiz Time?

Vibe Coding

Not a programming language.

Demo B: Watch Agentic AI Take Action

1. Assign Goal

Setting the end objective (e.g. "Plan a Road trip").

2. Planning

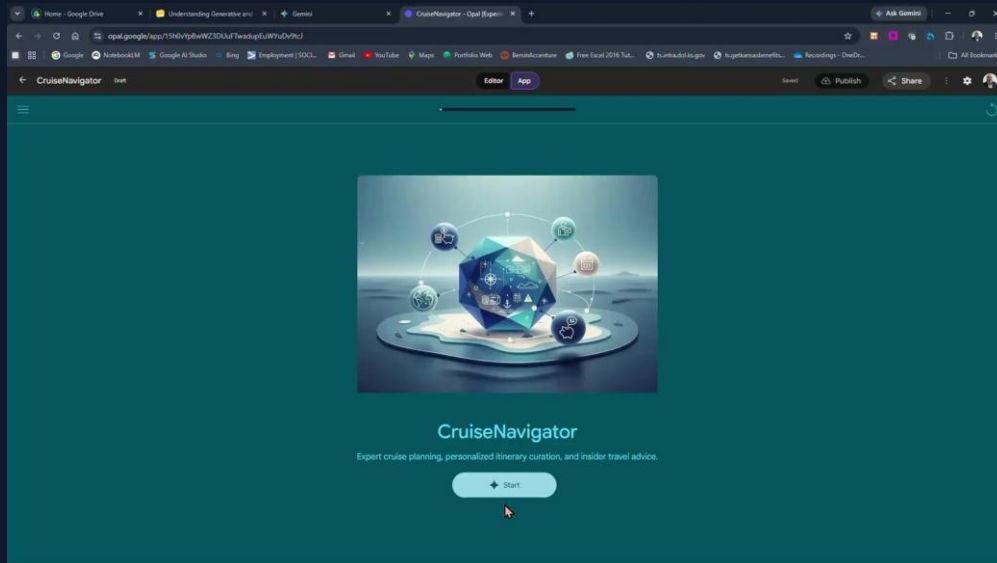
The AI determines the necessary steps and tools autonomously.

3. Execution

The AI takes action across different tools or platforms until done.

"Notice how the AI checks its own work and navigates obstacles without a new prompt."

Demo B: Watch Agentic AI Plan a cruise



Cruise Navigator

The Request-Response Model

The AI relies on an instruction set and the ability to call on skills, subagents, and APIs. Makes decisions, verifies, and rewrites until the mission is complete.

- ➡ Human gives input, or AI runs automatically
- ➡ AI analyzes, creates, confirms, decides, continues
- ➡ Only stops when goal/mission is complete

Mariner's Log

A curated exploration of Mediterranean luxury for October 2027.

DURATION

14 Days

DEPARTURE

Oct 2027

FOCUS

Culture

REGION

Adriatic

Cruise Selection

Viking Saturn

"Thinking Person's Cruise"

- ✓ Resident Historian
- ✓ Daily Excursions
- ✓ Venice Overnight

Silver Ray

"Adventurous Luxury"

- ✓ S.A.L.T. Program
- ✓ Butler Service
- ✓ All-Inclusive

Seven Seas

"Luxury Perfected"

- ✓ Extensive Excursions
- ✓ Business Class Air
- ✓ High Opulence

Tactical Deep-Dive: Silver Ray

Port Strategy

Kotor

6:00 AM Sail-In; Fortress climb & private speedboat to Perast.

Dubrovnik

Early City Walls; Pejeljac wine tour; Buža II Bar sunset.

Rhodes

Lindos Acropolis priority access; Medieval Knights Quarter.

Stateroom Strategy

Mid-ship Deluxe Veranda (Decks 6-7).
Starboard for coastal views. Avoid Deck 9 Aft.

All Aboard!

Financial Overview

SHIP	ESTIMATED TOTAL
Viking Saturn	\$17,500 – \$18,500
Silver Ray	\$25,500 – \$27,000
Seven Seas Splendor	\$28,500 – \$30,000

Preparation Essentials

— Packing

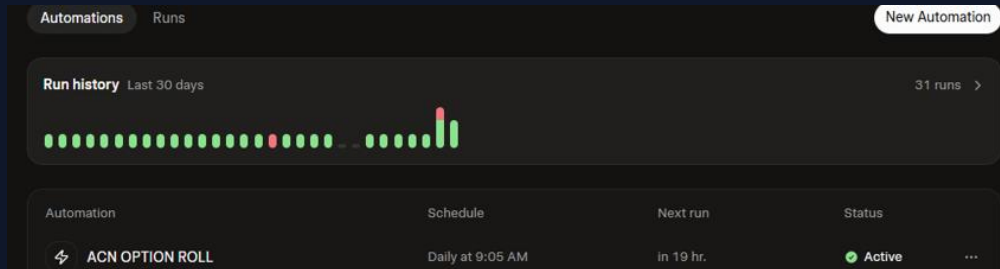
- High-grip rubber-soled shoes
- October layers (cashmere/soft-shell)
- Compact binoculars
- Elegant Casual sport coats

— Logistics

- Arrival: 2 days pre-departure
- Pre-cruise: Hotel Danieli or Gritti Palace
- Adapters: Type C/L required

All Aboard!

Demo: Watch Agentic AI Create Retirement Income



Cruise Navigator

The Request-Response Model

The AI relies on an instruction set and the ability to call on skills, subagents, and APIs. Makes decisions, verifies, and rewrites until the mission is complete.

- ➡ Human gives input, or AI runs automatically
- ➡ AI analyzes, creates, confirms, decides, continues
- ➡ Only stops when goal/mission is complete

Staying Smart and Safe

-  **Verify the Source:** AI is a powerful tool, not a factual authority. It can and does hallucinate.
-  **Look for the 'Voice':** Notice overly uniform structures, lack of personal nuance, or generic phrasing.
-  **The Governance Check:** Before trusting, sending, or sharing, ask: "Did a human review this?"
-  **Context Enrichment:** Improve accuracy by adding specific context or files to the context window.
-  **Private Chat:** Improve privacy by utilizing the private/temporary chat.
-  **Local Intelligence:** For maximum privacy and offline capability, consider running AI models locally.

The Power of Local Intelligence



Hardware is Key

Processing data "at the edge" ensures your private files never leave your device. Efficiency depends entirely on the NPU (Neural Processing Unit) design.

Elite Performance

Chips like the **Snapdragon X Elite** enable multi-billion parameter models to run offline with high TFLOPS, bridging the gap between cloud and pocket.

"By running AI locally, the chip becomes the engine of privacy and speed."

Local AI

Download Free Software

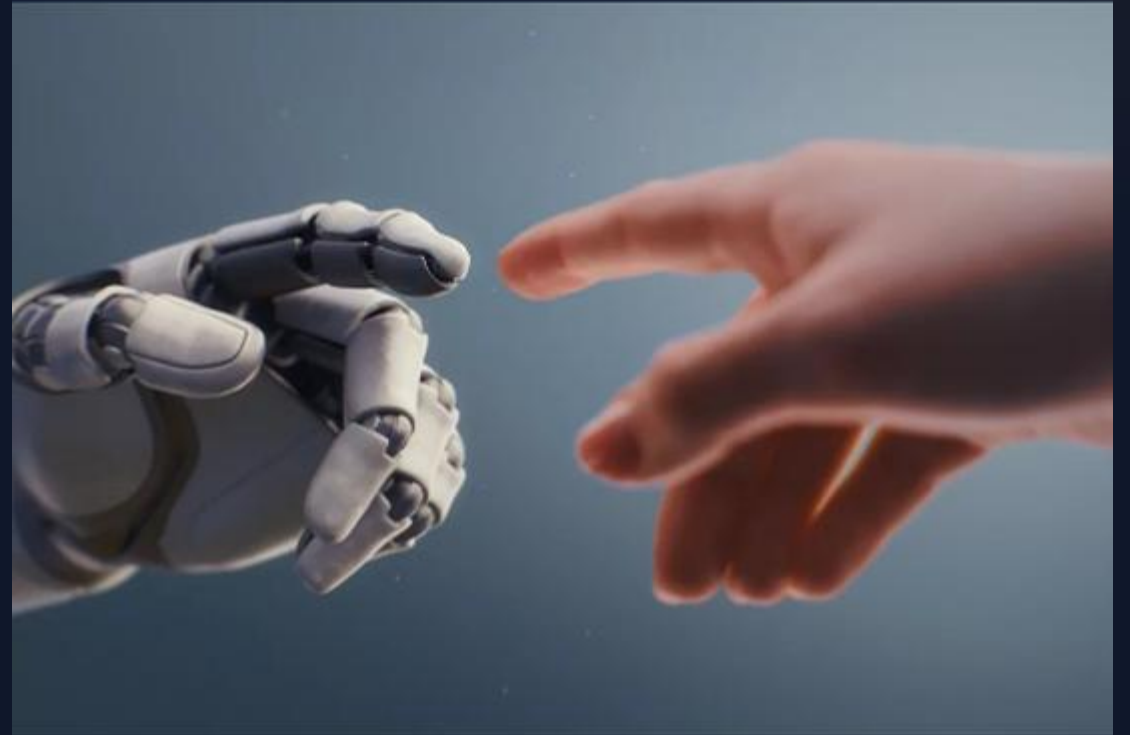
1. LM Studio

2. Ollama

3. Download Model

At the end of the day, you decide what to trust, what to send, and what to share.

Technology accelerates the vehicle, but the human must always steer.

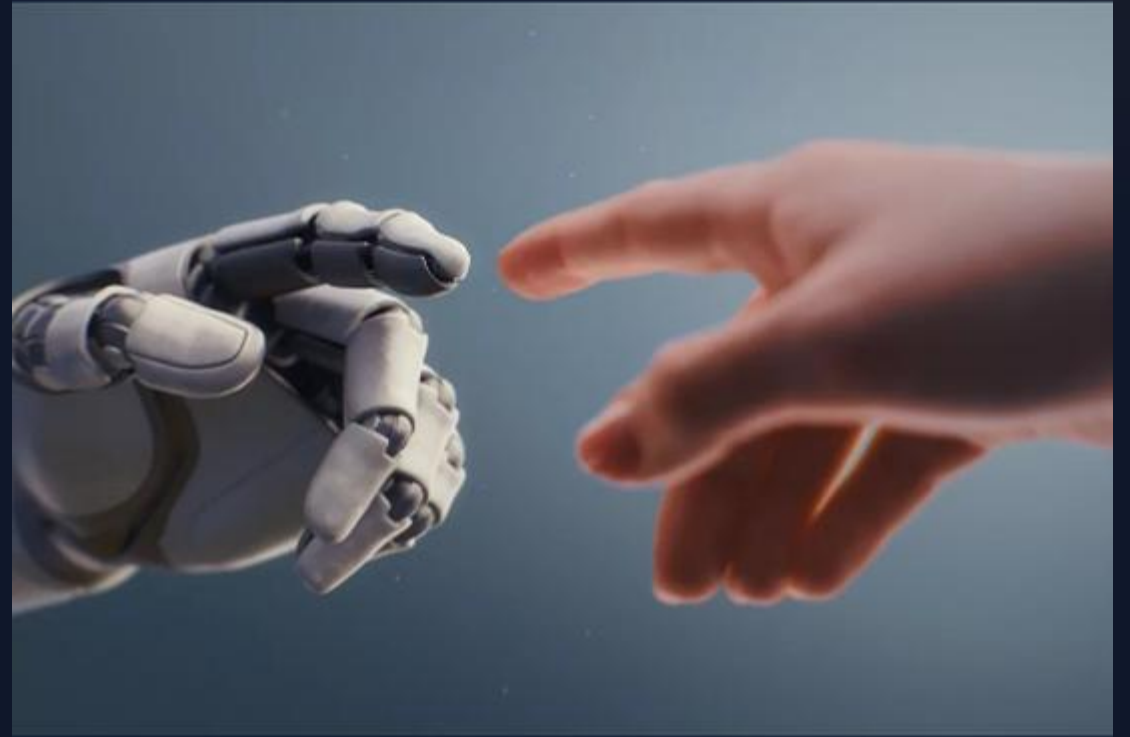


The Core Principle

Human-In-The-Loop Safeguards are the foundation of the future.

At the end of the day, you decide what to trust, what to send, and what to share.

Technology accelerates the vehicle, but the human must always steer.



Wrapping Up

Thank You!

- ☑ Defined **Generative AI**
- ☑ Defined **Agentic AI**
- ☑ Demystified key terms
- 😎 Had fun along the way



Question?

Q&A



Clarify **AI Concepts**



Discuss **Practical Use Cases**



Share implementation ideas



Open floor for discussion



Contact Information

Steve Chavez

email: stevepchavez@outlook.com

LinkedIn: [linkedin.com/in/stevepchavez/](https://www.linkedin.com/in/stevepchavez/)

Instagram: [@stevechavezconsulting](https://www.instagram.com/stevechavezconsulting)

Image Sources



https://fargowoodworks.com/wp-content/uploads/2025/12/Conference-Table_Black-Walnut-Clear-Finish_e290929f-1000x1000.jpg

Source: fargowoodworks.com



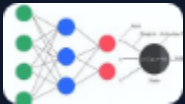
<https://i.all3dp.com/wp-content/uploads/2021/01/14162404/Jetson-vs-RP.jpg>

Source: [all3dp.com](https://i.all3dp.com)



https://miro.medium.com/1*laN3aseisIU3T9QTllob4Q.gif

Source: [medium.com](https://miro.medium.com)



https://ik.imagekit.io/upgradl/abroad-images/imageCompo/images/ChatGPT_Image_Nov_20_2025_03_47_56_PMTT18DE.png

Source: www.upgrad.com



https://cybertlabs.com/wp-content/uploads/2025/09/Gemini_Generated_Image_tz8e6ptz8e6ptz8e.png

Source: cybertlabs.com



<https://static.vecteezy.com/system/resources/thumbnails/075/531/512/large/abstract-animation-of-curved-glowing-blue-path-flowing-across-dark-background-in-futuristic-digital-environment-light-trail-motion-free-video.jpg>

Source: www.vecteezy.com

Image Sources



<https://www.supplychainbrain.com/ext/resources/2026/01/30/humans-artificial-intelligence-technology-iStock-2226867384.webp?t=1770008760&width=1080>

Source: www.supplychainbrain.com



https://png.pngtree.com/thumb_back/fw800/background/20251207/pngtree-luminous-digital-cube-with-intricate-circuitry-on-a-dark-background-image_20758355.webp

Source: [pngtree.com](https://png.pngtree.com)

