

# Chat GPT e Inteligencia Artificial en Educación



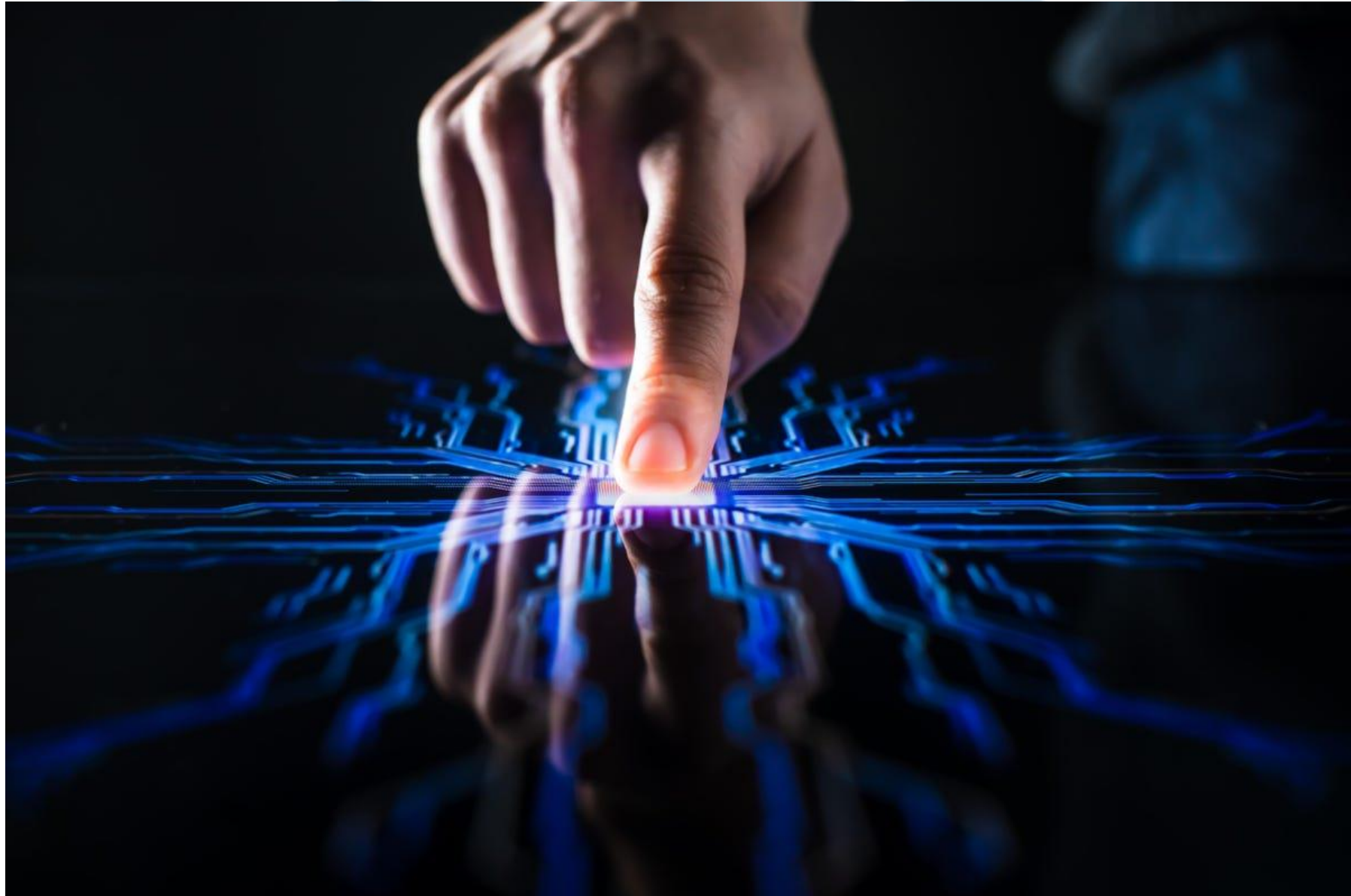
RESEARCH  
ARTICLE

# IA en Educación

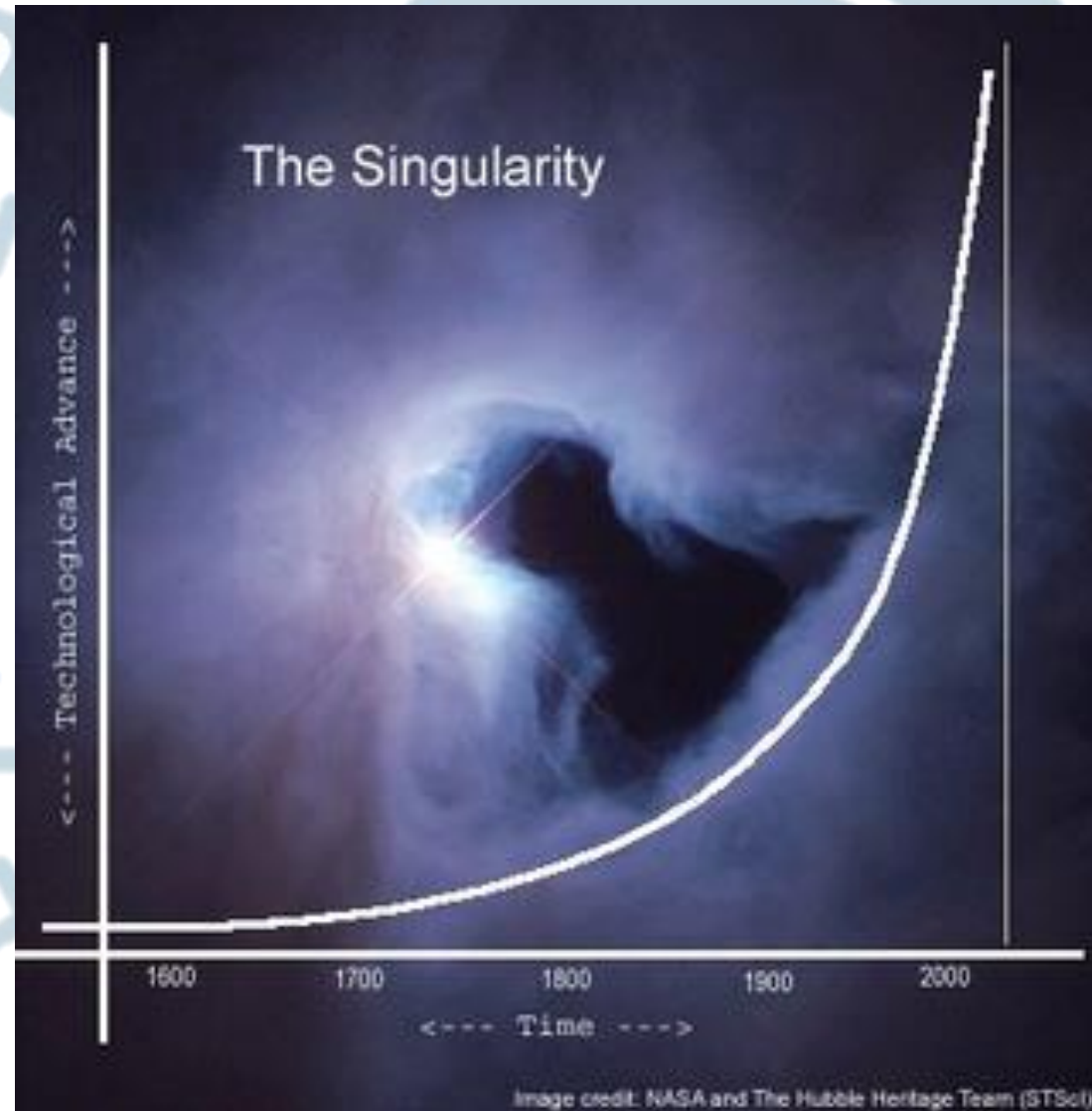
## Chat GPT es solo el comienzo

- Aplicaciones tecnológicas que van a revolucionar nuestras vidas.
- Chat GPT y otras aplicaciones de IA en educación.
- Impacto ético y social.
- Redefiniendo la educación, nuevos desafíos

# Chat GPT – Dislocación



# La Singularidad



# Realidad Aumentada



# Realidad Aumentada



# Realidad Virtual




# Big Data





# OpenAI

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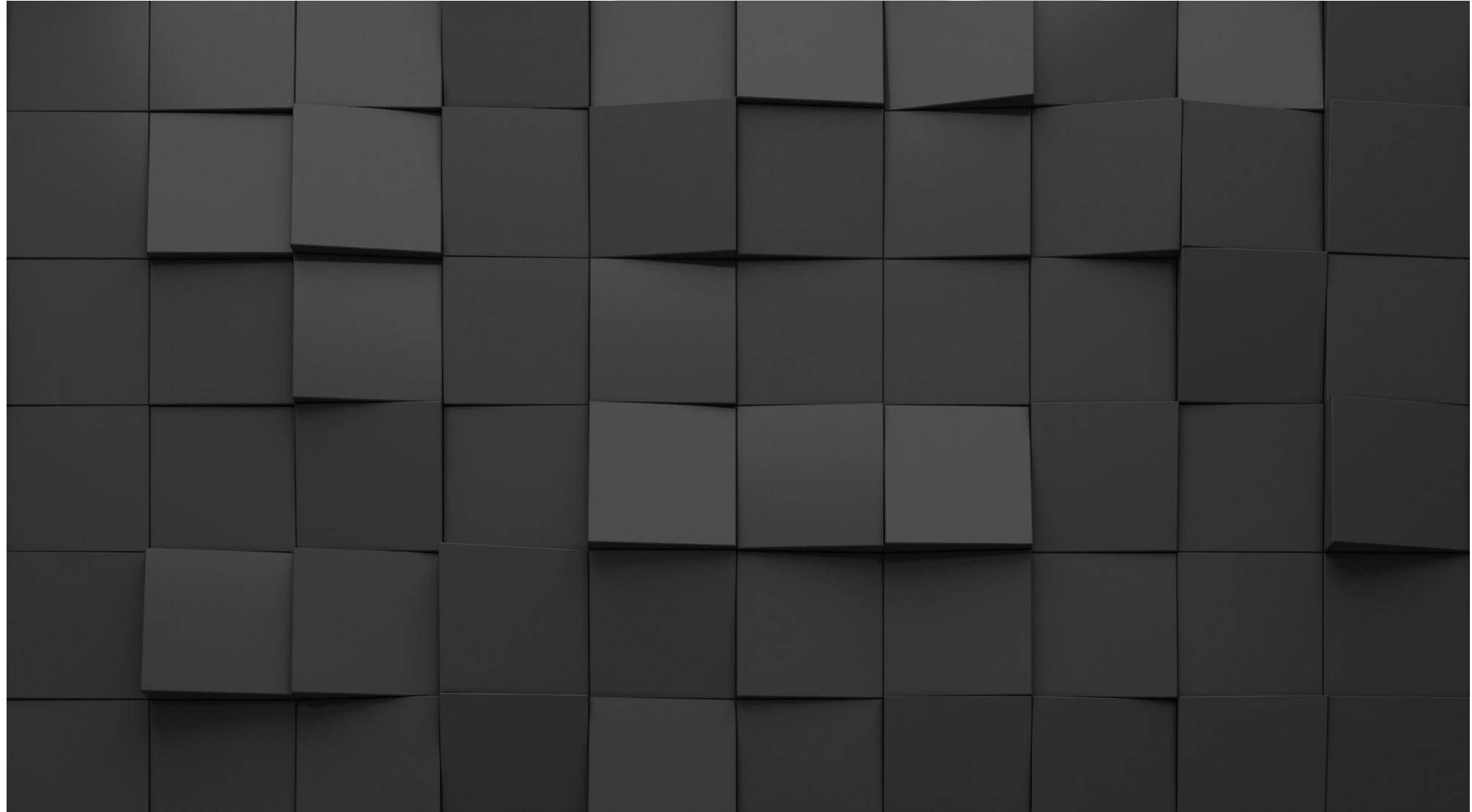
```
Message(role: .bot, text: "Of course, happy to help! Did you know that the sun's energy comes from nuclear fusion?"),
Message(role: .user, text: "That's incredible. Is there any way we can harness nuclear fusion here on Earth?"),
Message(role: .bot, text: "Scientists are working on it! Nuclear fusion has the potential to be a nearly limitless source of energy."),
Message(role: .user, text: "That's fascinating. What are some other cool scientific discoveries that have been made recently?"),
Message(role: .bot, text: "Well, just a few years ago, scientists detected gravitational waves for the first time. They are ripples in spacetime caused by some of the most violent and energetic processes in the universe."),
Message(role: .user, text: "Wow, that sounds incredible. How did they detect the waves?"),
Message(role: .bot, text: "They used incredibly sensitive instruments called interferometers to detect tiny changes in the distance between mirrors. It's a really cool experiment. Why is it considered spooky?"),
Message(role: .user, text: "That's amazing. Science truly is a remarkable field. What do you think are some of the biggest challenges in science today?"),
Message(role: .bot, text: "There are so many! Some of the biggest challenges include understanding the mysteries of dark matter and dark energy, finding a unified theory of physics, and understanding the origins of life. But it's encouraging to know that there are so many brilliant scientists working on these problems. Absolutely! Science is all about exploring the unknown and making new discoveries that can benefit humanity. Thanks for all the amazing information! I'm excited to keep learning more about science."),
Message(role: .user, text: "Let me know if you have any more questions or if there's a specific topic you'd like to explore further."),
Message(role: .bot, text: "I'd be happy to help! What would you like to know?")
```

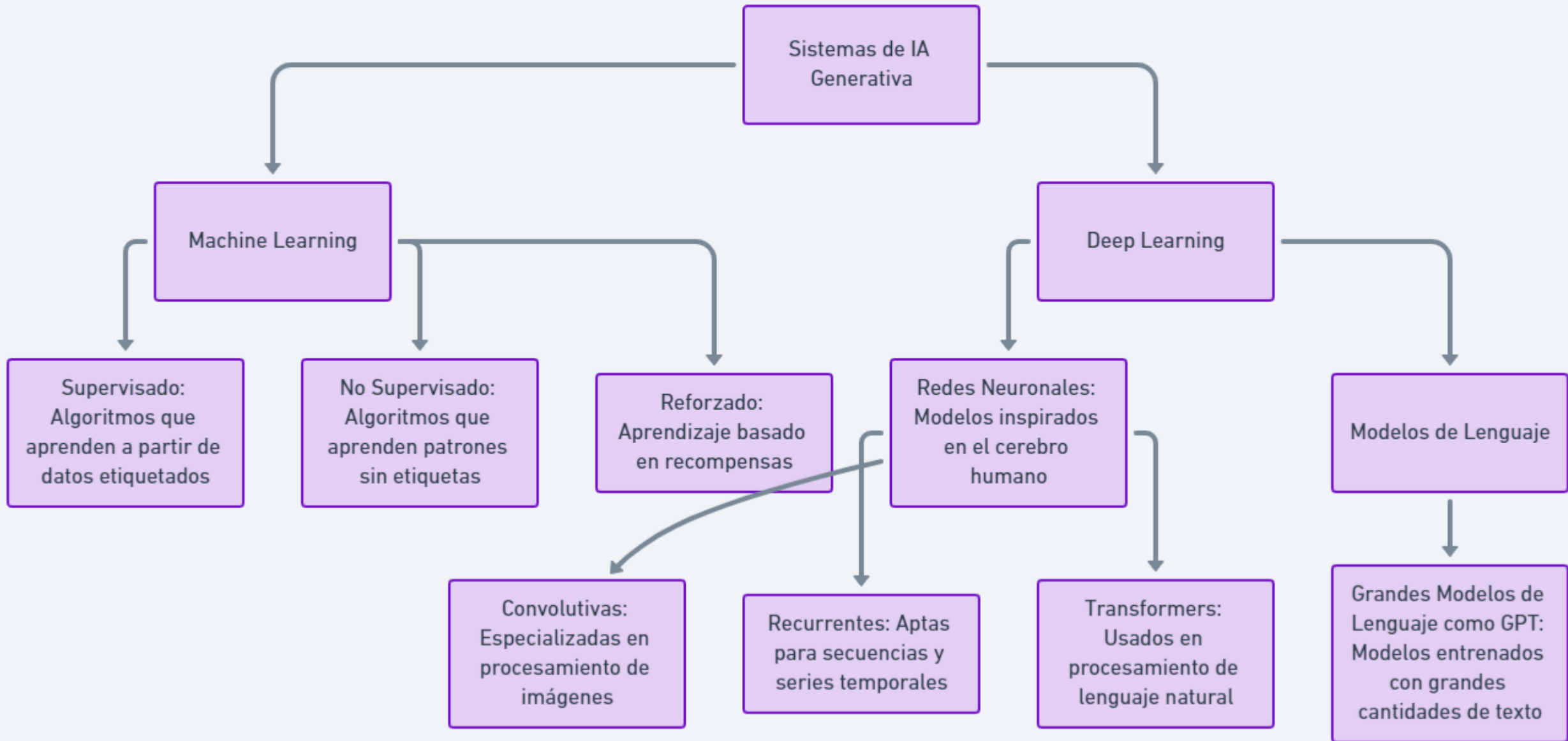
## Creating safe AGI that benefits all of humanity

[Learn about OpenAI](#)

|| [Pause video](#)

# El Efecto “Caja Negra”





# IA en Educación

## Machine Learning

- Una rama de la inteligencia artificial con enfoque en algoritmos predictivos.
- Técnicas: Aprendizaje supervisado, aprendizaje no supervisado y aprendizaje por refuerzo.
- Aplicaciones: Filtrado de spam, sistemas de recomendación y autos autónomos.

# IA en Educación

## Reinforcement Learning

- Aprendizaje a través de la interacción con un entorno, recibiendo recompensas o penalizaciones.
- Maximizar las recompensas acumuladas a lo largo del tiempo, aprendiendo la política óptima para la toma de decisiones.
- Aplicaciones: Robótica, juegos y asignación de recursos.

# IA en Educación

## Neural Networks – Redes Neuronales

- Capas interconectadas de neuronas artificiales diseñadas para el procesamiento de datos y el aprendizaje.
- Mecanismo: Ajusta los pesos de las conexiones a través del entrenamiento para el reconocimiento de patrones y la toma de decisiones.
- Rol: Componente fundamental de las aplicaciones modernas de IA.

# IA en Educación

## Deep Learning

- Un subconjunto de aprendizaje automático que se centra en patrones complejos en los datos.
- Herramientas: Utiliza redes neuronales artificiales multicapa.
- Especializaciones: Sobresale en tareas como el reconocimiento de imágenes, el procesamiento de lenguaje natural y el reconocimiento de voz.

# IA en Educación

## Natural Language Processing (NLP)

- Un subcampo de la IA que permite a las computadoras comprender y generar lenguaje humano.
- Técnicas: Análisis de texto, detección de sentimientos y traducción automática.
- Aplicaciones: Chatbots, asistentes de voz y generación automatizada de contenido.



# IA en Educación

## Biases y entrenamiento humano

- Los primeros modelos presentaron sesgos de los corpus de datos.
- Sesgos de género.
- Sesgos raciales y étnicos.
- De-biasing.

# IA en Educación

## Riesgos de las redes neuronales

- Investigación de neumonía - modelo de reglas vs. redes neuronales.
- Opacidad del modelo vs. precisión.
- Iniciativas de transparencia.
- ¿Tienen las personas el derecho a explicaciones cuando se toman decisiones algorítmicas?

# IA en Educación

## Algunas definiciones

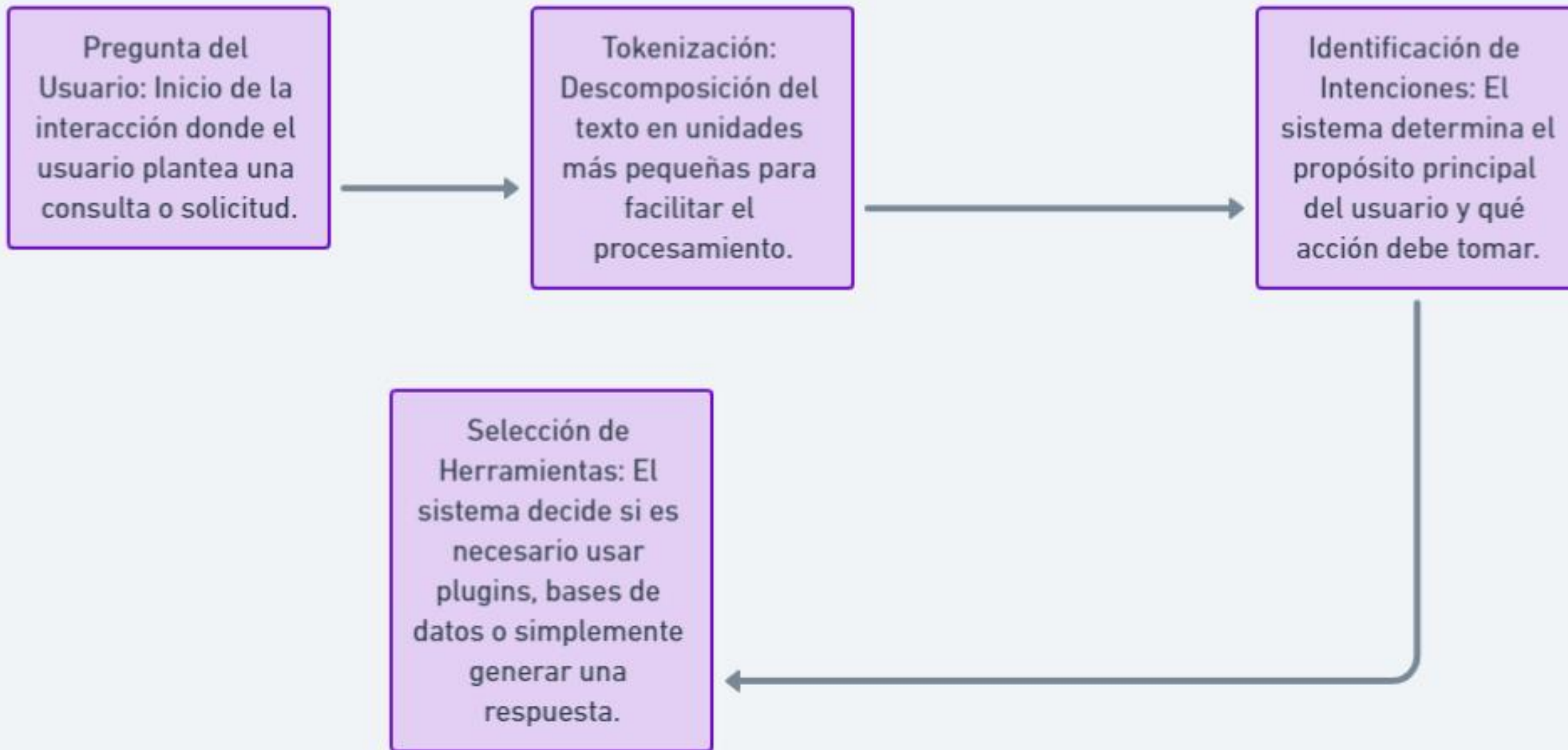
- Chat GPT es un Generative Pre-Trained Transformer.
- Creado por OpenAI.
- Modelo de lenguaje basado en Deep Learning.
- 175 mil millones de parámetros / 4 billones GPT4

# IA en Educación

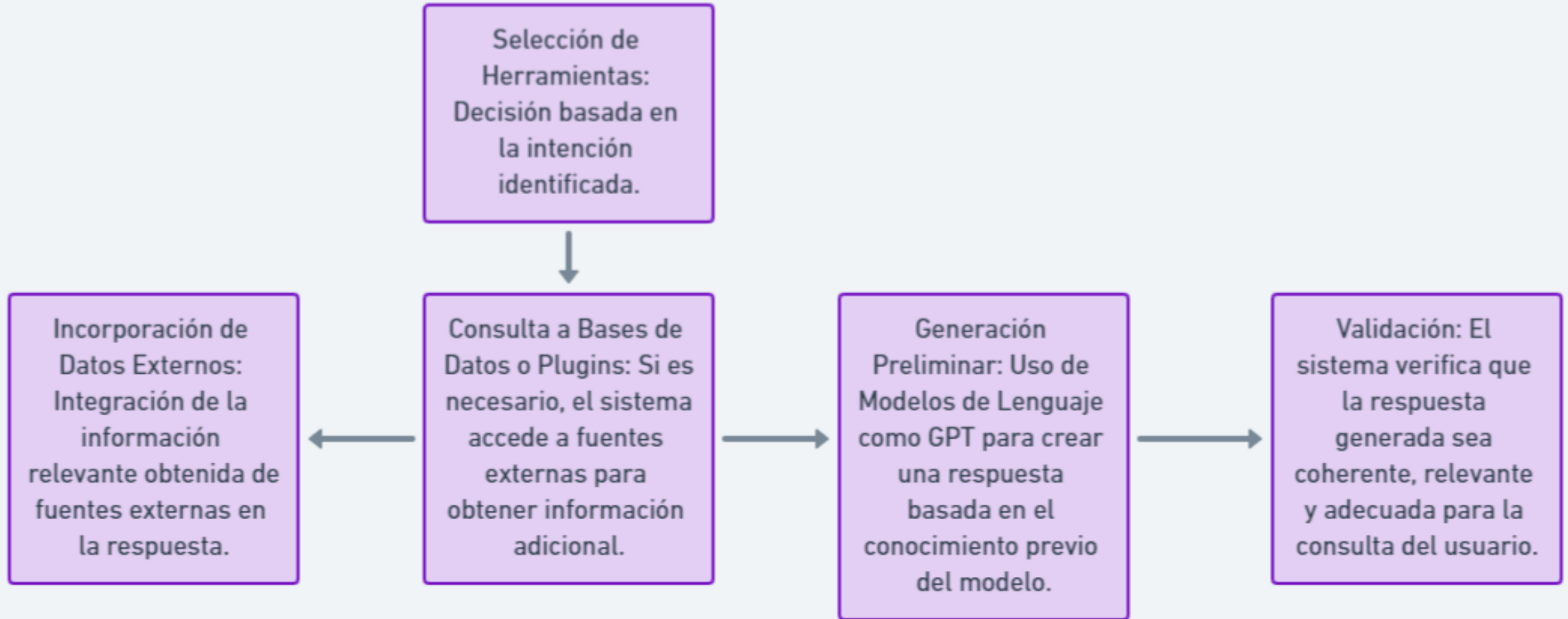
## Chat GPT

- Red Neuronal - Deep Learning.
- Reinforcement learning, basado en feedback humano para eliminar biases.
- Sistema de procesamiento del lenguaje más avanzado de la historia.
- Es la peor version que experimentaremos.

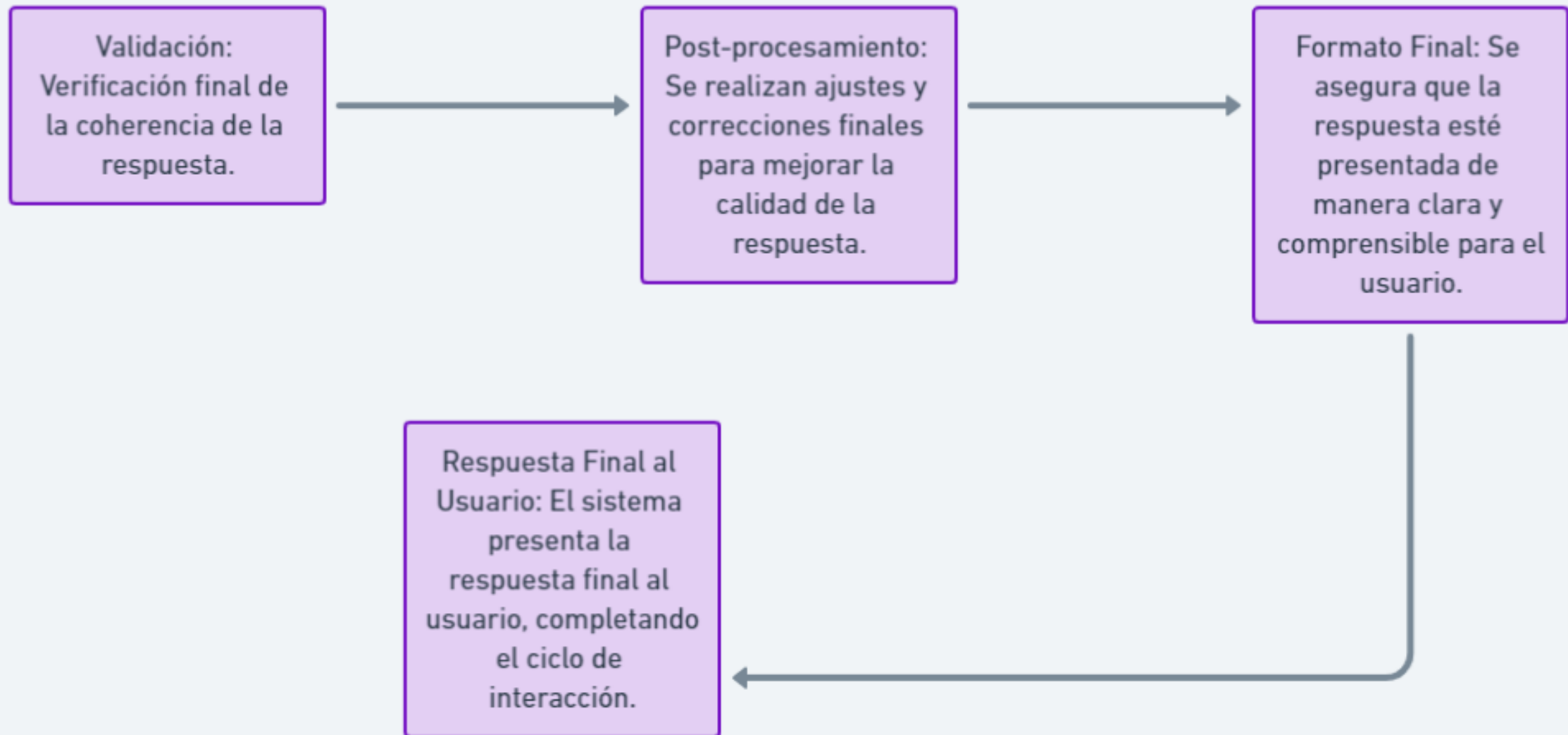
# Chat GPT



# Chat GPT



# Chat GPT



# Chat GPT

## Limitaciones e implicancias

- Pre-entrenado, no en tiempo real ni orgánico.
- No contiene información posterior a 2021.
- Modelo muy caro por las horas – persona de entrenamiento.
- GPT-4 para Chat GPT Plus, aunque no totalmente desplegado.
- Alucinaciones.



# OpenAI – otras aplicaciones

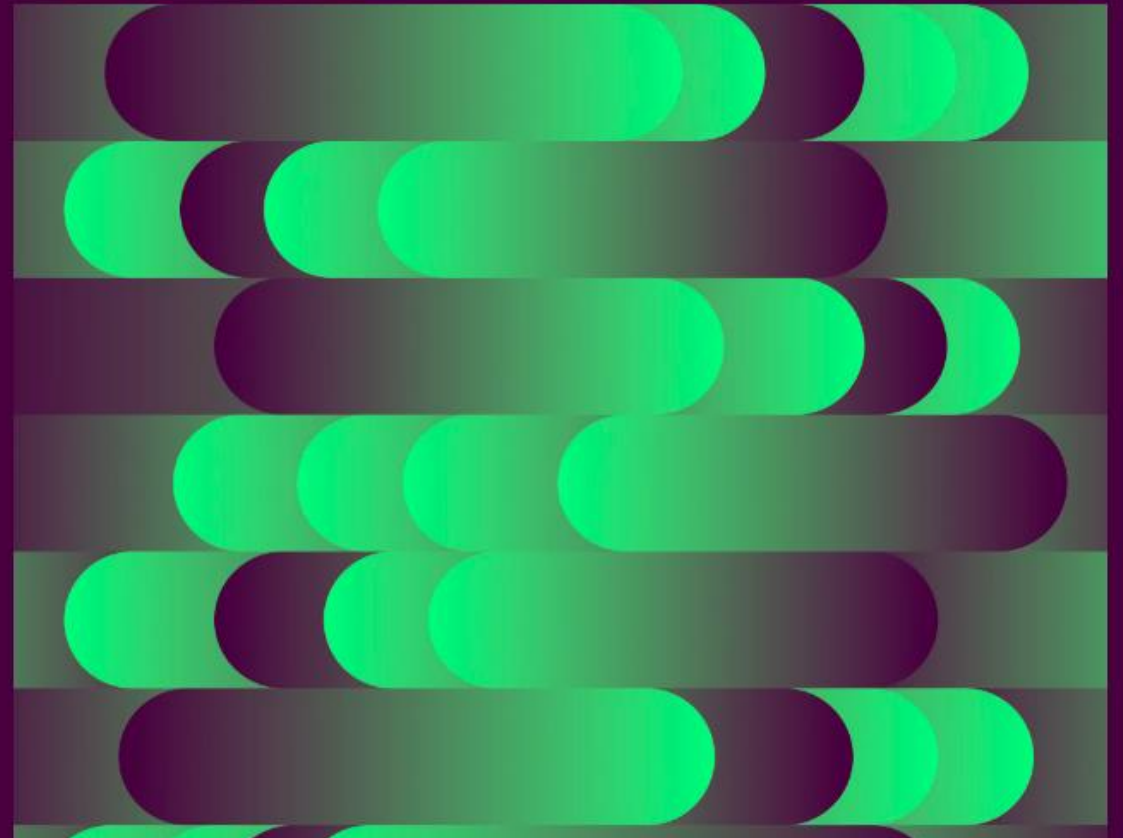


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## Introducing ChatGPT and Whisper APIs

Developers can now integrate ChatGPT and Whisper models into their apps and products through our API.



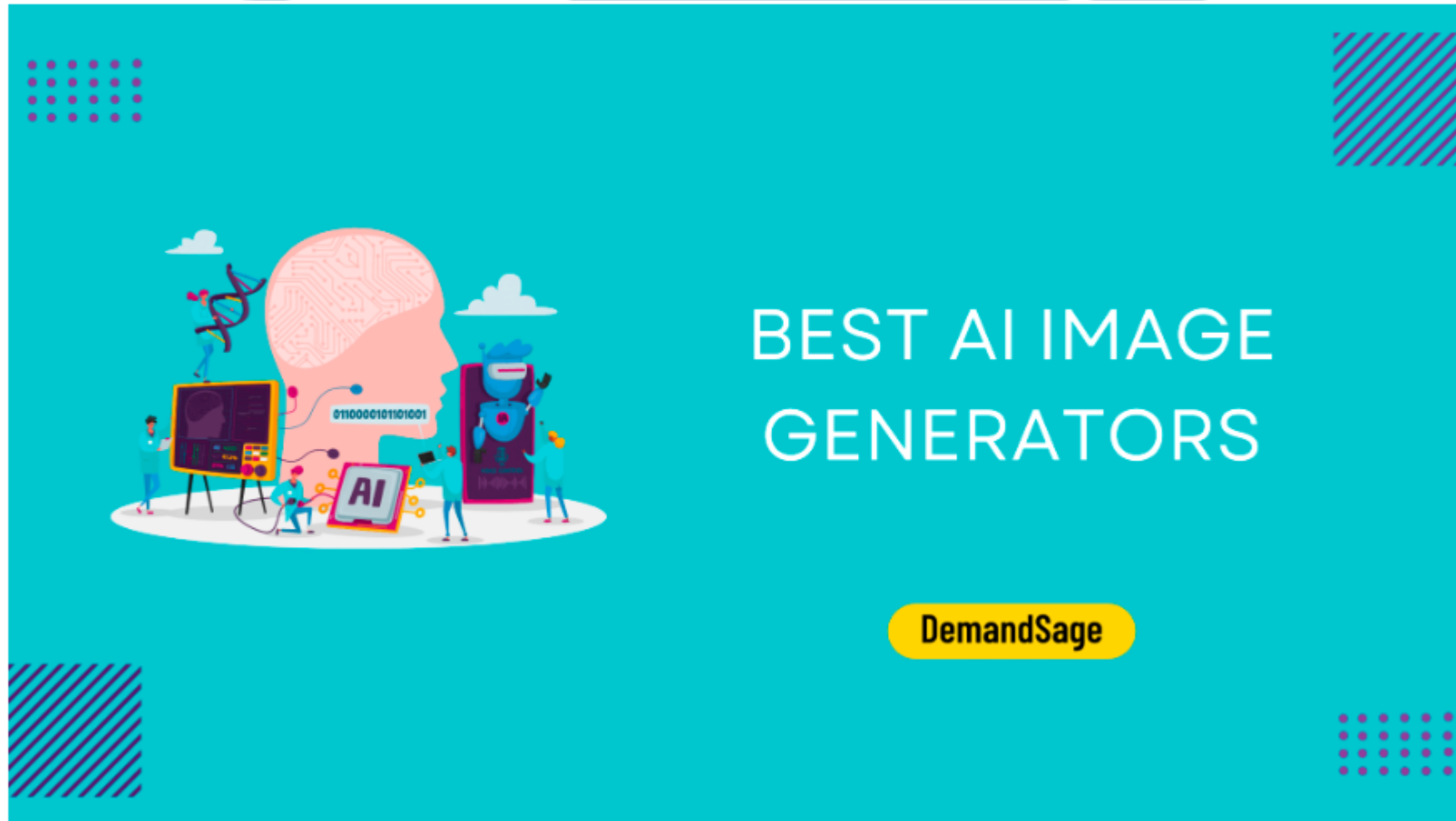
# Transcripción y análisis de texto

The screenshot shows the ONEAI Studio interface. At the top, there are navigation tabs for 'Studio', 'Analytics<sup>BETA</sup>', 'Docs', and 'Videos'. On the right, there are buttons for 'Run Pipeline', 'Share Pipeline', 'Log In', and a menu icon. The main workspace is divided into several sections:

- Text Input:** A section on the left with a 'Sample Library' tab. It contains a text input field with the prompt 'Insert your text or [URL](#) or [Upload file](#)'. Below this, there are three buttons: 'Summary', 'Analytics', and 'More...'. At the bottom of this section, there is a 'Generated Code' area with a Python code editor showing a snippet of code for making an API request. A 'Copy Code' button is visible next to the code.
- Pipeline Builder:** A central area with a dashed border. It contains a 'Drop language skills here' instruction with a hand icon. Below this, there is a search bar with the text 'Drag skills from the library to the pipeline above' and 'Search skills (try 'emotions', 'love', 'people', 'pricing...')'. The skills are organized into categories: 'Pre-Processing' (Anonymize, Proofread, Split by Sentence, Split by Topic), 'Text Extraction' (HTML-to-Article, Transcribe Audio, PDF Extract Text), and 'Insights'.

```
1 import requests
2
3 api_key = "<YOUR-API-KEY>"
4 url = "https://api.oneai.com/api/v0
5 headers = {
```

# Generadores de Imágenes



# Generadores de Imágenes

starryai.

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 Create

## Create Art with AI

Generate art 🎨 simply by describing what you want to see and our Artificial Intelligence transforms your words into art.

 Start Creating

Download on the  
App Store

Get it on  
Google Play



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# DALL-E 2

DALL-E 2 is an AI system that can create realistic images and art from a description in natural language.

[Try DALL-E ↗](#) [Follow on Instagram ↗](#)

# Asistentes para escritura



## Write Faster With AI, Save Time ⚡

Compose AI is a Chrome extension that cuts your writing time by 40% with AI-powered auto-completion & text generation.



Backed by Combinator

Watch Guide

Download Extension



Hey team,

Just wanted to provide a quick update on the numbers from last quarter. It seems that there were a few points that are worth discussing, and I think it'd

Without Compose



Hey team,

Just wanted to provide a quick update on the numbers from last quarter. It seems

Michelle from Compose

Hey there 🤖 Welcome to Compose 🏠

Take a look around! If you have any...



# Transcripción de YouTube



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## YouTube Summary with ChatGPT

Get summary of the YouTube videos.

Learn better with ChatGPT 



Install on Chrome



Install on Safari

No sign up required

# Apuntes de reuniones



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[Try for free](#)

## Effortless meeting notes and action items

Cogram takes automatic notes in virtual meetings and identifies action items, while keeping your data private and secure.

[Try for free](#)

[Try Cogram in a 15-min live](#)

### Transcript:

**Jane Wilde:**

Hey all, great to meet everyone. So where are we on this?

**Oscar Maine:**

Hi Jane. We'll prepare and share an overview deck with your team this week. Please have your colleagues take a look at it.

**Jane Wilde:**

Thanks Oscar. Do you have a timeline for setting up an integration with our ERP? That would be very helpful.

### Meeting Writeup:

**Summary:**

Jane Wilde and Oscar Maine discuss the setup of a software tool for procurement optimisation. They align on the steps required for approval. Jane Wilde asks about an ERP integration.

**Action Items:**

- Share an overview deck with Jane Wilde. Assignee: Oscar Maine
- Review with her colleagues. Assignee: Jane Wilde
- Check what the timeline for an ERP integration would be. Assignee: Oscar Maine

# Creación de diapositivas

[Demo](#)[Help Guides](#)[Pricing](#)[Powerpoint](#)[FAQs](#)[Join Affiliate Program](#)

SlidesAI now supports es Spanish & it Italian 🇪🇸  
The support for jp Japanese and fr French is coming soon! :)

## Create Presentation Slides with AI **in seconds**

Say goodbye to tedious, manual slides creation. Let the AI write the outline and presentation content for you.

With our tool, you can easily create **professional, engaging slides from any text in no time.**

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# Creación de landing pages

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## Build landing pages faster with AI



### Effortless One-Click Landing Page Creation

Save time and energy by generating beautiful landing pages within minutes, allowing you to focus on growing your business



### Highly Convertible Copy, Design, and Code

Build landing pages with expert-quality copywriting, award-winning design, and seamless development, increasing your credibility and conversion rates



### Benefit from Industry-Leading Expertise

Utilize Sitekick's AI, trained on 1000 high-converting landing pages, along with the latest conversion insights and best practices to create exceptional landing pages for businesses of all sizes and industries



### Access High-Quality, Copyright-Free Images

Enhance your landing pages with visually stunning, royalty-free images that perfectly represent your brand and captivate your audience

[CREATE A LANDING PAGE](#)

# Diseño interior y de productos

 VisualizeAI Beta

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## Visualization Superpowers for Product

Build Prototypes, Visualize your designs, Generate Inspirations & Re-imagine ideas within seconds

- ✔ Choose from 100+ styles or customize as per your needs
- ✔ For Hobbyists as well as Professionals
- ✔ Latest AI models
- ✔ 3768+ Happy Users

[10x Your Visualization Power Now →](#)



# Creación de contenidos

The image shows a dark-themed user interface for content creation. At the top, there is a search bar with the placeholder text "Search for formats and objectives...". To the right of the search bar are two buttons: "Upgrade Plan" with a crown icon and "GF" in a blue box. Below the search bar is a large central area with the heading "Everyone has a story - What's your story, today?". Underneath this heading is a text input field containing the example text "Eg: Gold market volatility in recent times" and a lightbulb icon to its right. Below the input field is a button that says "Create new story for brand none" with a "CHANGE" link next to it. On the left side of the interface is a vertical sidebar with several icons: a colorful swirl, a yellow lightning bolt, a briefcase labeled "Portfolio", a blue circle with the letter "N" labeled "Brand", a folder icon labeled "Assets", and a share icon labeled "Publish". Below the central area, there is a section titled "CREATE USING POPULAR CONTENT OBJECTIVES" with a "Show" button and a row of filter buttons: "All", "Informative", "Topical", "Inspirational", and "Promotional". Below this are six content objective cards, each with a title, a description, and a representative icon: 1. "Share Knowledge" (lightbulb icon) with the description "Create thought leadership on a subject". 2. "'How to' Guides" (checkmark icon) with the description "Teach your audience how to do something". 3. "Product Updates" (refresh icon) with the description "Introduce your product's latest release and upgrade". 4. "Announcements" (megaphone icon) with the description "Announce milestones & events". 5. "Introduce" (hand icon) with the description "Introduce your audience to an idea or concept". 6. "Explain a Concept" (lightbulb icon) with the description "Explain a new idea, concept or thoughts". A right-pointing arrow is visible on the far right of the bottom row of cards.

# Texto a voz



SPEECHGEN.IO

TTS

FAQ

Pricing

EN

Login here 1 500

English (US)

PRO Angel

pitch

speed



Convert text to speech with modern artificial intelligence voices. Use it for work, video editing, business, advertising, social networking, entertainment and more. Copy paste or type your text instead, create voiceover and download.

Characters 233

Generate speech

mp3

Balance

1 500 Limits ?

Get more limits

3 000 characters ?

PRO 1 500 characters ?

# Plugins

Model  
Plugins ALPHA

Plugins  
No plugins enabled

## Plugin store



OpenTable

Install ↻

Allows you to search for restaurants available for booking dining experiences



FiscalNote

Install ↻

FiscalNote enables access to select market-leading, real-time data sets for legal, political, and regulatory...



Instacart

Install ↻

Order from your favorite local grocery stores.



Zapier

Install ↻

Use Zapier to interact with over 5,000+ apps like Google Sheets, Trello, Gmail, HubSpot, Salesforce,...



KAYAK

Install ↻

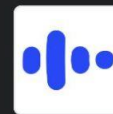
Search flights, stays & rental cars or get recommendations where you can go on your budget.



Milo Family AI

Install ↻

Curating the wisdom of village to give parents ideas that turn any 20 minutes from meh to magic.



Speak

Install ↻

Learn how to say anything in another language with Speak, your AI-powered language tutor.



Wolfram

Install ↻

Access computation, math, curated knowledge & real-time data through Wolfram|Alpha and Wolfram...

# Análisis de Datos

Code Interpreter

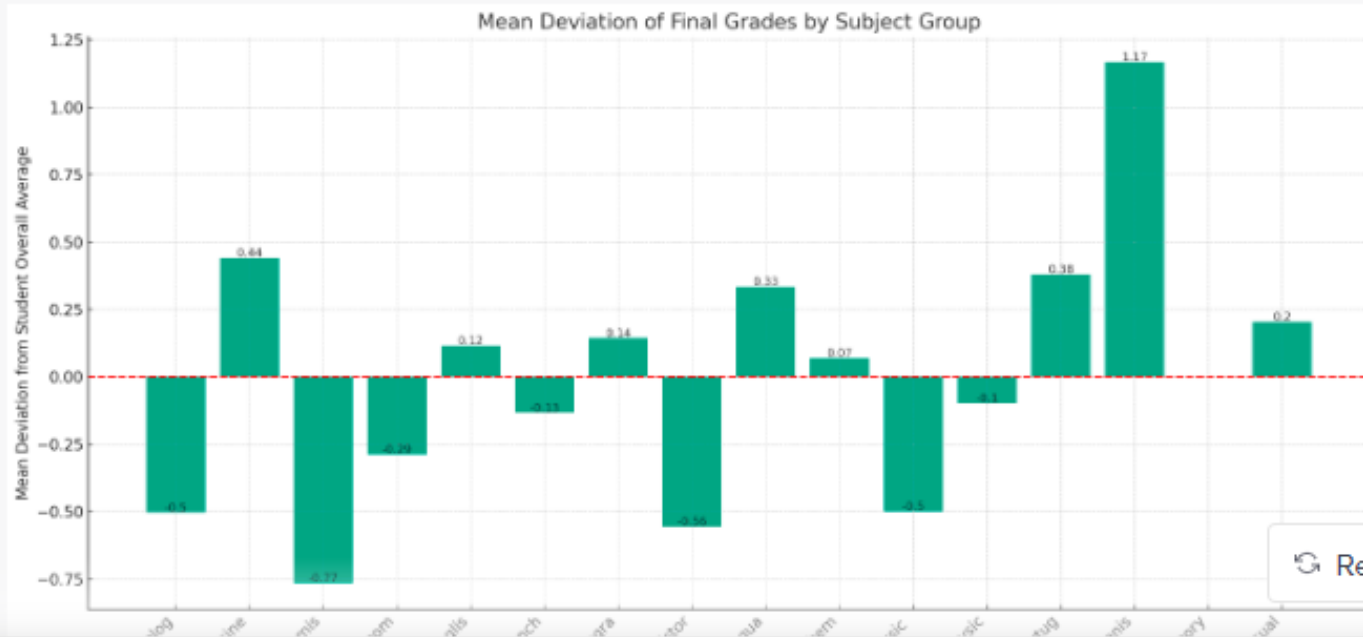
3. Group the deviations by subject to calculate the mean deviation for each subject.

4. Analyze and visualize the mean deviations to understand the relative performance in each subject.

Let's start by performing these steps:

Finished working

Show work ▼



Regenerate

# Chat GPT y aplicaciones de IA

## Aplicaciones generales

- Un experto que abarca todas las áreas
- Un tutor personalizado
- Transcripción
- Resumen

# Chat GPT y aplicaciones de IA

## Aplicaciones generales

- Simplificación
- Necesidades especiales y dificultades de aprendizaje
- Investigación
- Generación de código
- Imágenes, videos y presentaciones



# Chat GPT y aplicaciones de IA

## Aplicaciones generales

- **Texto a voz**
- **Generación de nuevo contenido**
- **Conversaciones**
- **Role playing de personajes famosos**

# Chat GPT y aplicaciones de IA

## Aplicaciones a la Lectura

- Resumir textos de cualquier longitud
- Asistencia para la comprensión lectora
- Reescribir textos para diferentes edades/niveles de grado
- Extraer ideas principales en varios formatos

# Chat GPT y aplicaciones de IA

## Aplicaciones a la Lectura

- Planes de lectura personalizados
- Identificar entidades y referencias
- Reescribir para necesidades especiales de aprendizaje
- Reescribir para cambiar el tono o personalizar para problemas emocionales
- Realizar análisis de sentimientos

# Chat GPT y aplicaciones de IA

## Aplicaciones a la Lectura

- Reescribir al estilo de cualquier escritor
- Conversión de texto a voz
- Cambiar formatos literarios
- Reescribir con finales alternativos o cambios de trama
- Analizar el texto en busca de sesgos y significados ocultos

# Chat GPT y aplicaciones de IA

## Aplicaciones a la Escritura

- Generar esquemas para cualquier tema o idea
- Generación ilimitada de texto en varios estilos y longitudes
- Reescritura de texto para mejora o cambio de estilo
- Inclusión de referencias y citas

# Chat GPT y aplicaciones de IA

## Aplicaciones a la Escritura

- **Corrección de gramática y estilo**
- **Comentarios personalizados**
- **Asistencia al escritor**
- **Plantillas de escritura**
- **Actuar como editor**

# Chat GPT y aplicaciones de IA

## Otras Aplicaciones

- Resolución de problemas y explicaciones relacionadas.
- Experimentos - simulación.
- Recreaciones de eventos históricos en primera persona.
- Educación emocional - diálogos, historias.

# Chat GPT y aplicaciones de IA

## Generación de Imágenes

- Es realmente arte?
- Preocupación en la industria de arte digital.



# Chat GPT y aplicaciones de IA

## Generación de Imágenes

- **Uso indebido y tergiversación de imágenes generadas por IA**
- **Preocupaciones de privacidad y consentimiento**
- **Deepfakes y problemas de contenido no consensuado**
- **Sesgos y estereotipos en la generación de imágenes por IA**

# Chat GPT y aplicaciones de IA

## Generación de Imágenes

- **Desafíos de propiedad y derechos de propiedad intelectual**
- **Preocupaciones de autenticidad y confianza en los medios visuales**
- **Impacto psicológico y emocional de lo generado por IA**

# Implicancias éticas y sociales

## IA y aplicaciones avanzadas de la tecnología

- Son temas de los que no se habla ni se trabajan habitualmente.
- Nuestros alumnos, que han crecido con la tecnología, no tienen anticuerpos al respecto.
- Dilemas éticos, redes sociales , fakes, privacidad.

# MIT Moral Machine



[Home](#) [Judge](#) [Classic](#) [Design](#) [Browse](#) [About](#) [Feedback](#)



The COVID-19 crisis has forced people to confront difficult ethical challenges. If you are comfortable answering a few brief questions on this topic, please click [here](#).



[COVID-19](#)



Moral Machine - Human Perspectives on Machi...



Watch later



Share



By GrandWikhan (Own work) [CC BY-SA 4.0 (http://creativecommons.org/licenses/by-sa/4.0/)], via Wikimedia Commons

# My Goodness MIT

## Welcome to MyGoodness!

There are over [one million](#) registered charities in the United States alone, and many more worldwide. How do you choose among them?

MyGoodness is a simple game that helps you understand how you give. In the game, you will make 10 giving decisions. Each decision is between two choices, and you tell us which you prefer.

At the end of the game, we give you a summary of your 'goodness' and how it compares to others. You can share that feedback with whomever you would like.



Start Game!

View instructions (recommended)

# Harvard Project Implicit



Project Implicit

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## Gender-Career IAT

*Gender - Career.* This IAT often reveals a relative link between family and females and between career and males.

## Asian IAT

*Asian American ('Asian - European American' IAT).* This IAT requires the ability to recognize White and Asian-American faces, and images of places that are either American or Foreign in origin.

## Weapons IAT

*Weapons ('Weapons - Harmless Objects' IAT).* This IAT requires the ability to recognize White and Black faces, and images of weapons or harmless objects.

## Sexuality IAT

*Sexuality ('Gay - Straight' IAT).* This IAT requires the ability to distinguish words and symbols representing gay and straight people. It often reveals an automatic preference for straight relative to gay people.

## Disability IAT

*Disability ('Physically Disabled - Physically Abled' IAT).* This IAT requires the ability to recognize figures representing physically disabled and physically abled people.

## Native IAT

*Native American ('Native - White American' IAT).* This IAT requires the ability to recognize last names that are more likely to belong to Native Americans versus White Americans.

## Weight IAT

*Weight ('Fat - Thin' IAT).* This IAT requires the ability to distinguish faces of people who are obese and people who are thin. It often reveals an automatic preference for thin people relative to fat people.

## Age IAT

*Age ('Young - Old' IAT).* This IAT requires the ability to distinguish old from young faces. This test often indicates that Americans have automatic preference for young over old.

## Gender-Science IAT

*Gender - Science.* This IAT often reveals a relative link between liberal arts and females and between science and males.

# MIT Detect Fakes

Detect Fakes

About

Informed Consent

Can you spot the DeepFake video?



"Terrific. . . . Art and science meet an engaged mind  
and the friction produces real fire." —*The New Yorker*

# *The Most Human*

*Human*



*What*

*Artificial Intelligence*

*Teaches Us About Being Alive*

B r i a n C h r i s t i a n



# Conclusiones

**Esto es solo el comienzo...**

- **¿Cómo redefinimos las habilidades cognitivas para cada nivel en base a este nuevo escenario?**
- **Sesiones de discusiones orales – no volver al papel y lápiz.**
- **Análisis previo al uso de la herramienta.**
- **Evaluaciones más profundas y creativas.**
- **Críticas y análisis del modelo.**

# Conclusiones

Esto es solo el comienzo...

- Algunas habilidades cognitivas están en riesgo:
  - Comprensión lectora.
  - Resumir y sintetizar.
  - Modelar y resolver un problema de la vida real.
- Para la mayoría de nuestros alumnos, el sistema posee capacidades superiores a las que ellos mismos van adquiriendo.

# Conclusiones

Esto es solo el comienzo...

- ¿Hemos llegado a un umbral de conocimiento humano acumulado?
- Se puede aprender mucho más y de manera más eficiente.
- Se trata de un paso muy significativo para la democratización del conocimiento.
- IAG Para el bien de la humanidad.

# Un nuevo futuro





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