

# Senior Planet: AI

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01

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# Unleashing Creativity with AI: Exploring ChatGPT and Gemini

02



PRESENTATION

# What is Generative AI?



- *Definition: AI that can create new content — text, images, music, video*
- *Examples: ChatGPT (text), Gemini (text + media), DALL·E (images), Sora (video)*
- *Why it matters: Speeds up creativity, helps brainstorm, automates tasks*



# Meet ChatGPT and Gemini

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- ChatGPT is owned by OPENAI, co-founded by **Elon Musk, Sam Altman and others**



- GOOGLE OWNS GEMINI AI
- **Gemini: A multimodal tool that can handle text, images, and generate slides**
- **Both use large datasets and deep learning to understand and generate content**

- A language model that responds with text based on your input

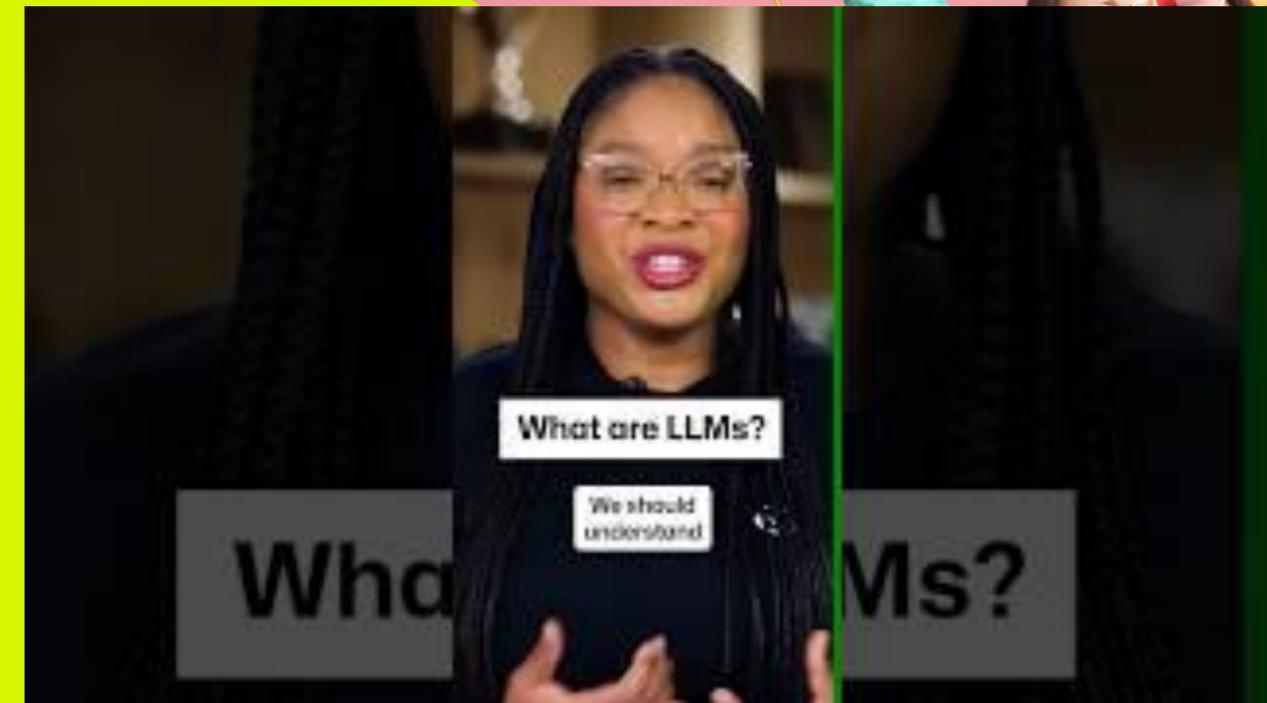
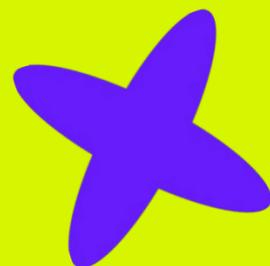




## how Text Generation works

- Trained on internet-scale text data
- Predicts what words are likely to come next
- Uses context from your input to shape the response
- Constantly improving with updates and user feedback

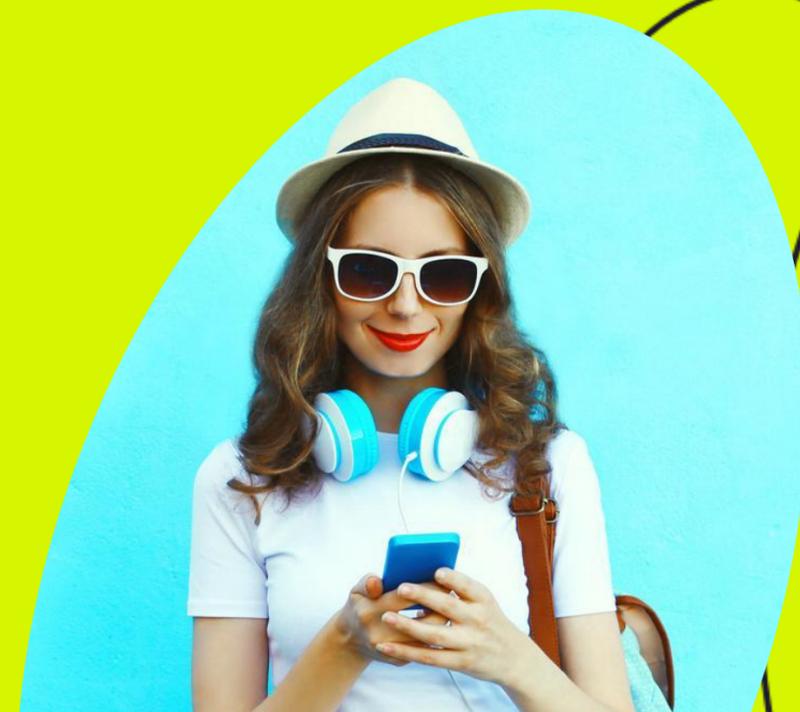
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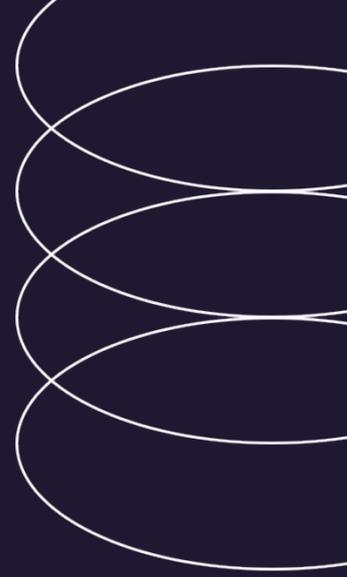
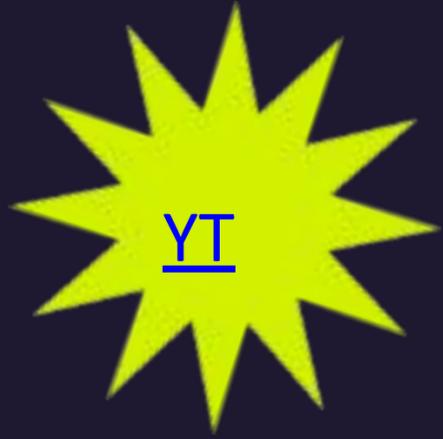


# Text to Images



- Tools like DALL·E, Gemini, and Sora use text prompts to generate visuals
- Trained on massive datasets of text-image or text-video pairs
- Match your words to visual representations
- <https://starryai.com/app/create/lyra>





# Algorithms

Data

- Machine learning: feeding data to train models to recognize patterns

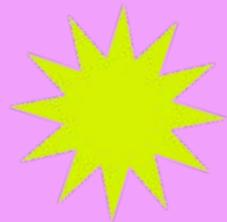
Feature Engineering

- Deep learning: neural networks with many layers
- LLMs: Large Language Models (like GPT) use transformer architecture

OOPS!

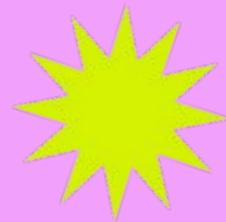
- They don't "understand" but are very good at pattern prediction

# Strength & Limitations



## Strengths of AI

- **Speed:** instant content generation
- **Consistency:** formats and grammar
- **Creativity:** can remix styles, languages, and genres
- Great for **brainstorming** and overcoming writer's block



## Limitations

- **Hallucinations:** sometimes make things up
- **Bias:** reflects biases in training data
- **Context:** lacks memory beyond the prompt unless fine-tuned
- **Judgment:** doesn't understand nuance, humor, or ethics like



The story of Arve Holmen



PRESENTATION



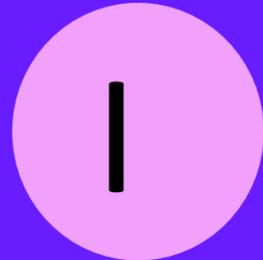


# Prompt Engineering

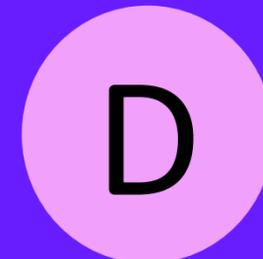
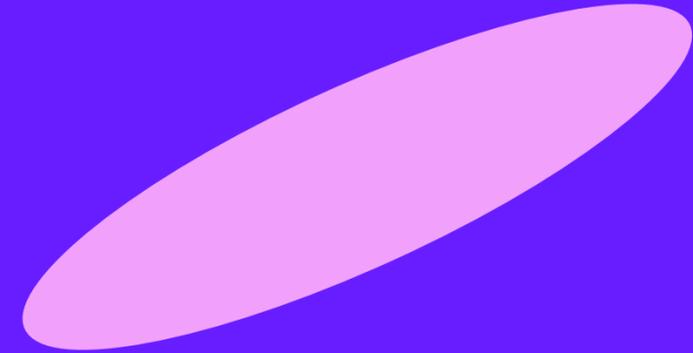
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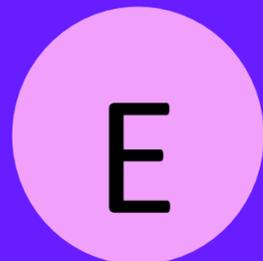
**Role:** "First explain, then summarize" , Audience?



**Input:** topic, tone, length

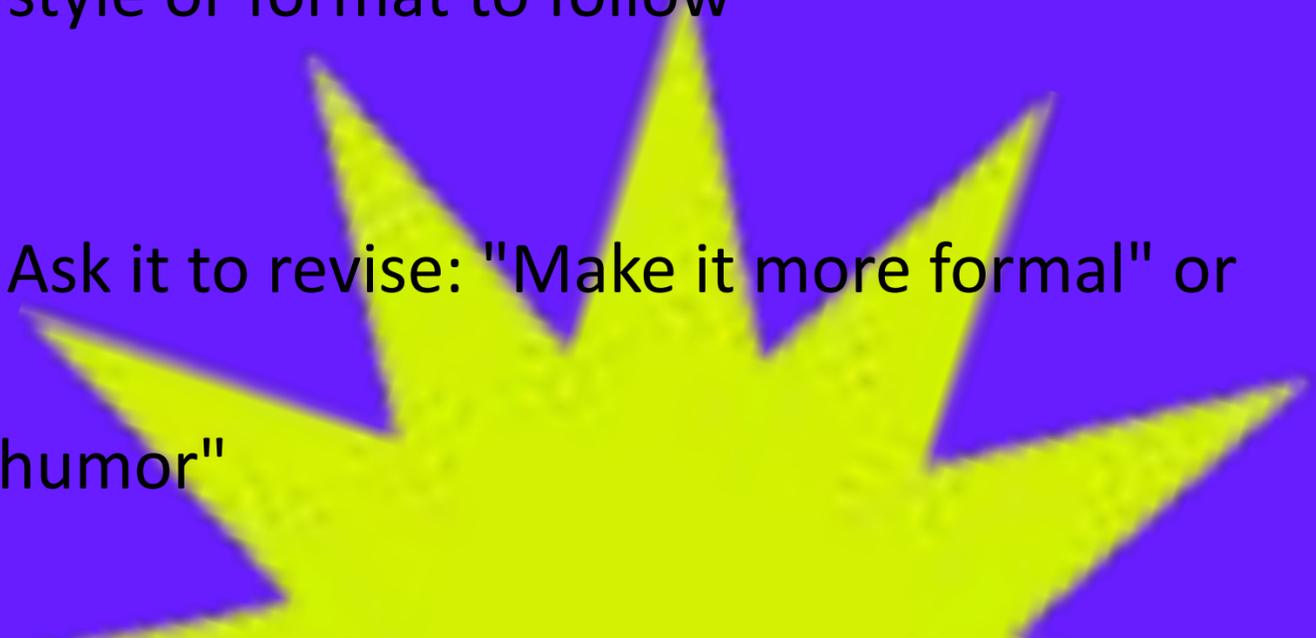


**Details:** Give examples: style or format to follow



**Expectations:** Ask it to revise: "Make it more formal" or

"Add humor"



# Chat Bard= Gemini

PRESENTATION



Hello, Tatyana

Tell me what you can do   Inspire me   Research a topic   Give me study tips

Ask Gemini

+   Deep Research   Canvas  

A screenshot of the Gemini chat interface. It shows a greeting "Hello, Tatyana" in a blue font. Below the greeting are four rounded rectangular buttons: "Tell me what you can do", "Inspire me", "Research a topic", and "Give me study tips". At the bottom is a large white input field with the placeholder text "Ask Gemini". Below the input field are icons for "Deep Research" and "Canvas", a plus sign, and a microphone icon.

What can I help with?

Ask anything

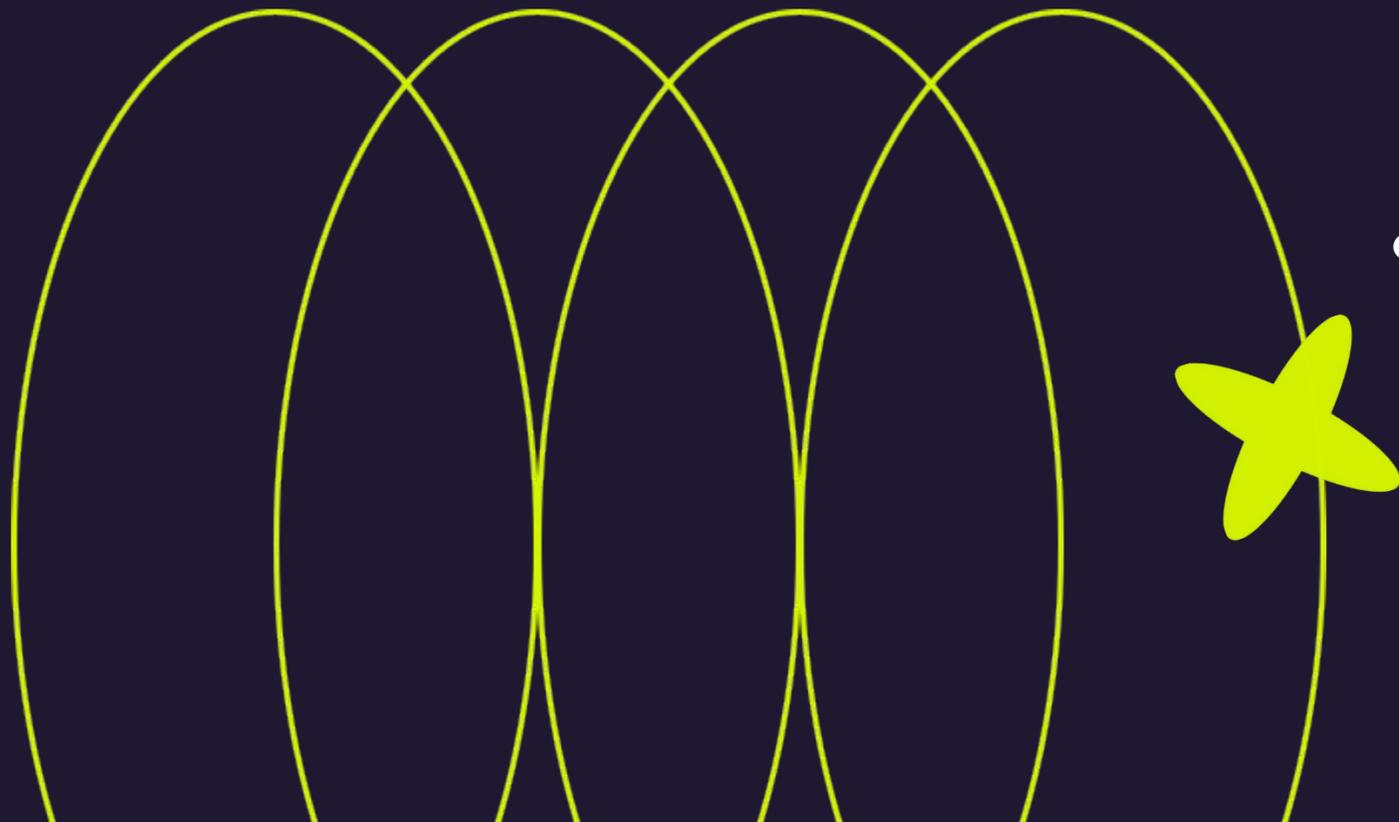
+              

A screenshot of the Gemini chat interface showing the prompt "What can I help with?". Below the prompt is a white input field with the placeholder text "Ask anything". Below the input field are several icons: a plus sign, a globe, a lightbulb, a microphone, a speech bubble, and a more options icon. To the right of the input field are a microphone icon and a voice recording icon.



# Ethical Considerations

- Cite sources when needed
- Don't plagiarize or copy blindly
- Consider data privacy and copyright
- Think critically about AI output



# Questions

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