

**THE INNOVATORS:**

Title:

# MULTIFUNCTIONAL CHATBOT

**Revolutionizing Text, Speech,  
and Image Processing**

Gen AI Hackathon





# INTRODUCTION:

## Overview:

Introducing our multifunctional chatbot that integrates multiple AI capabilities into a single platform.

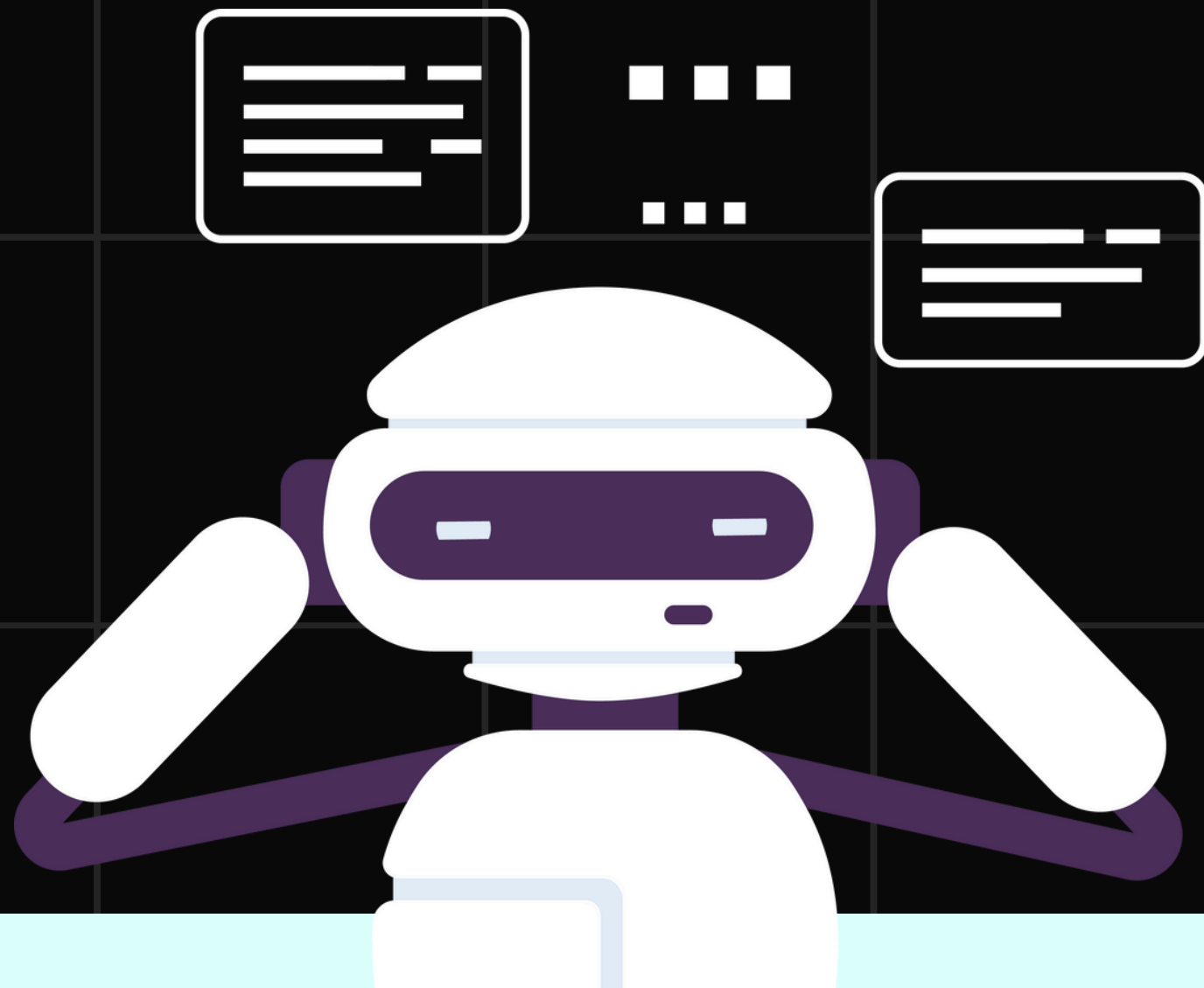
## Objective:

To demonstrate a versatile AI tool that handles text-to-image, image-to-text, text-to-speech, and speech-to-speech transformations.



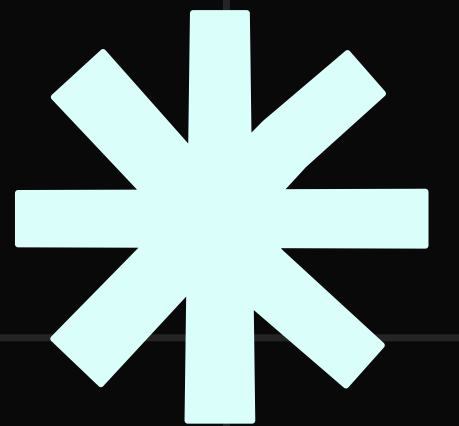
# PROBLEM:

Managing text, speech, and images often requires different tools, which can be inconvenient.



# IMPACT:

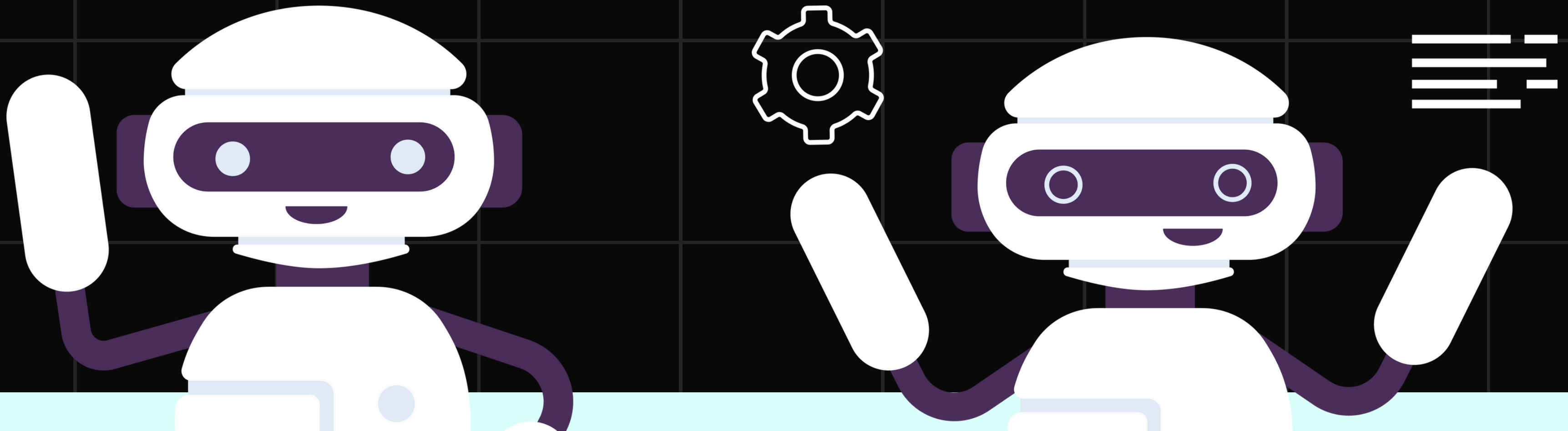
It's hard to keep everything organized and efficient when using multiple apps.



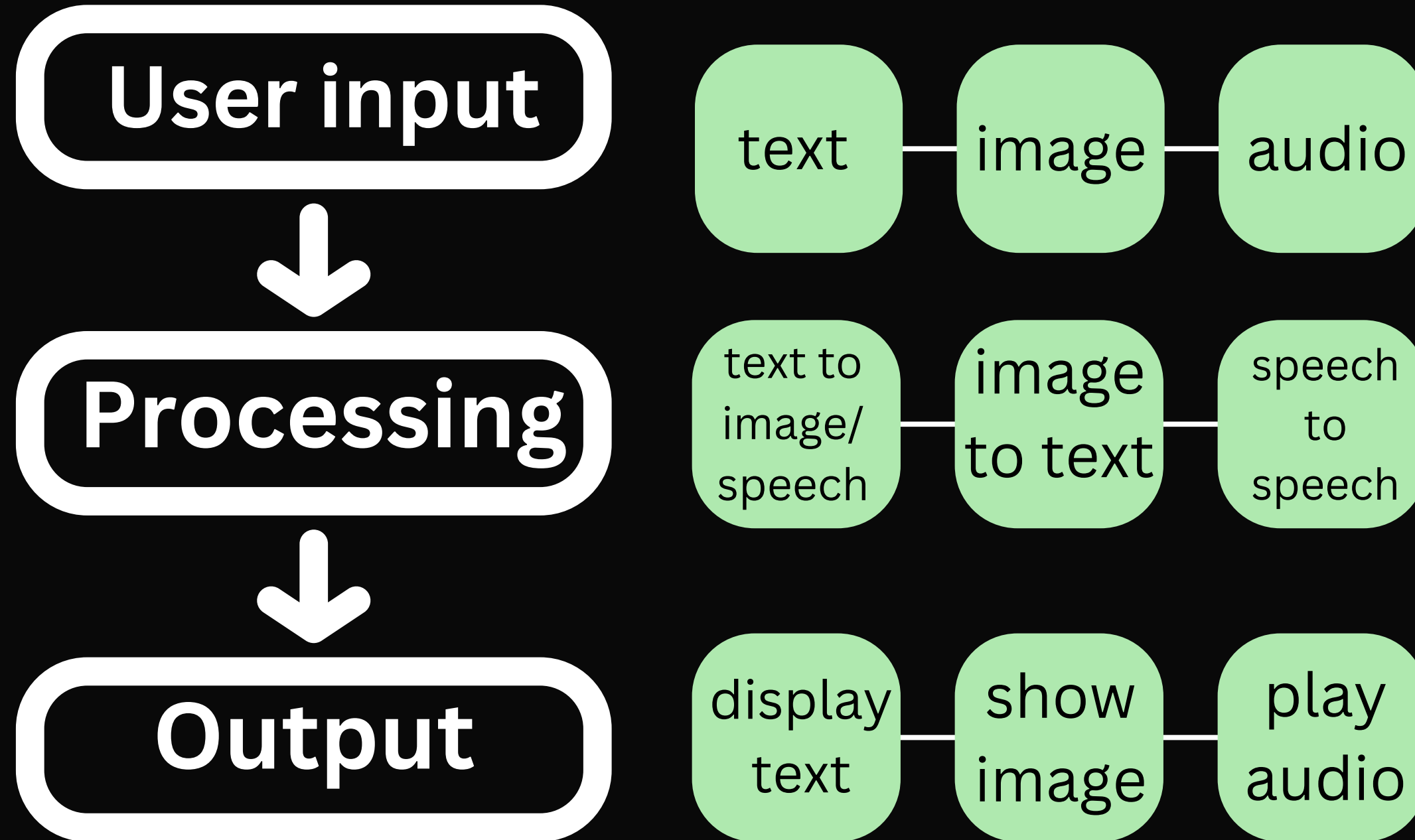


# SOLUTION:

**Our chatbot combines text, speech, and image features into one easy-to-use platform.**

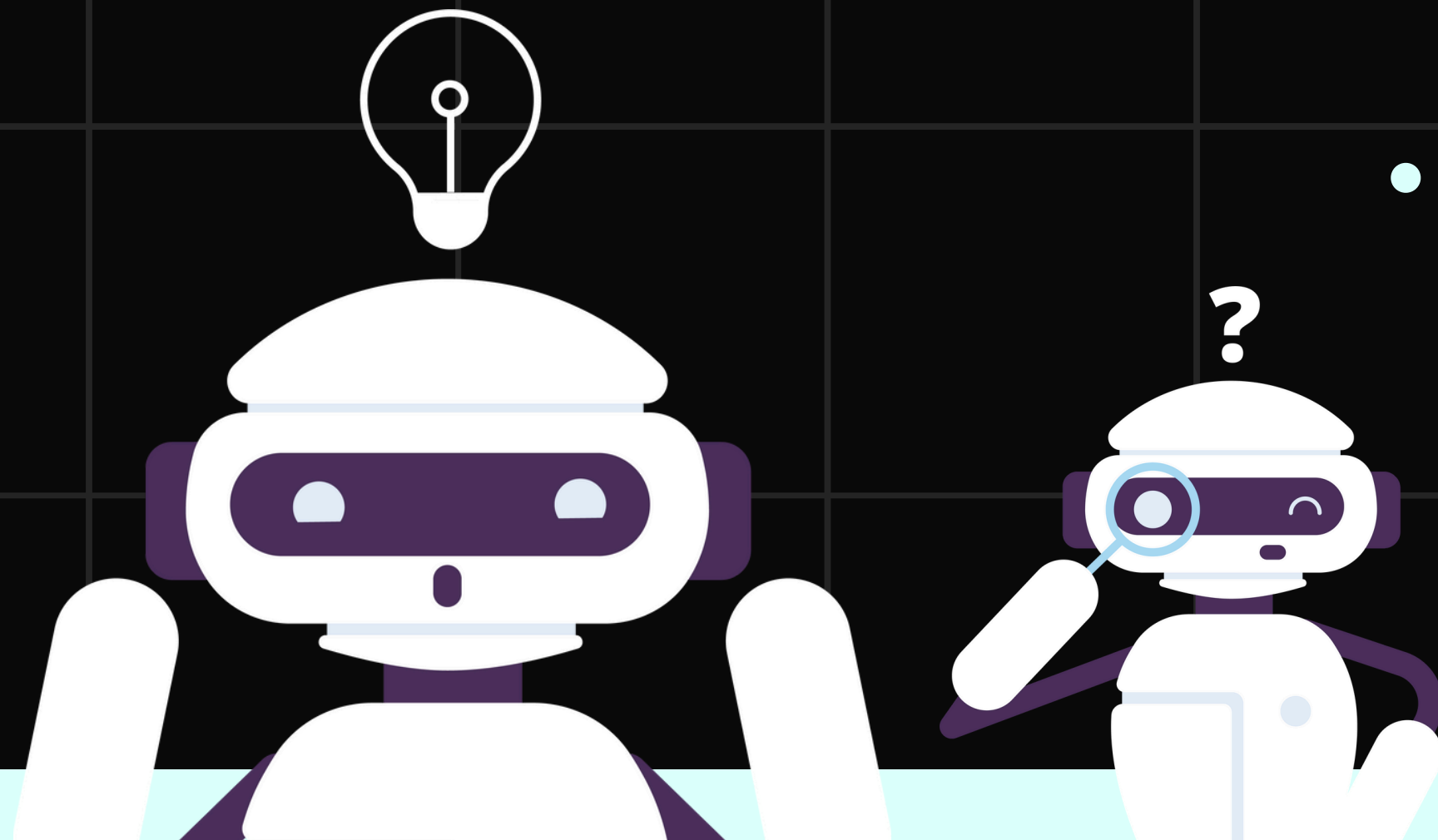


## Flow chart:

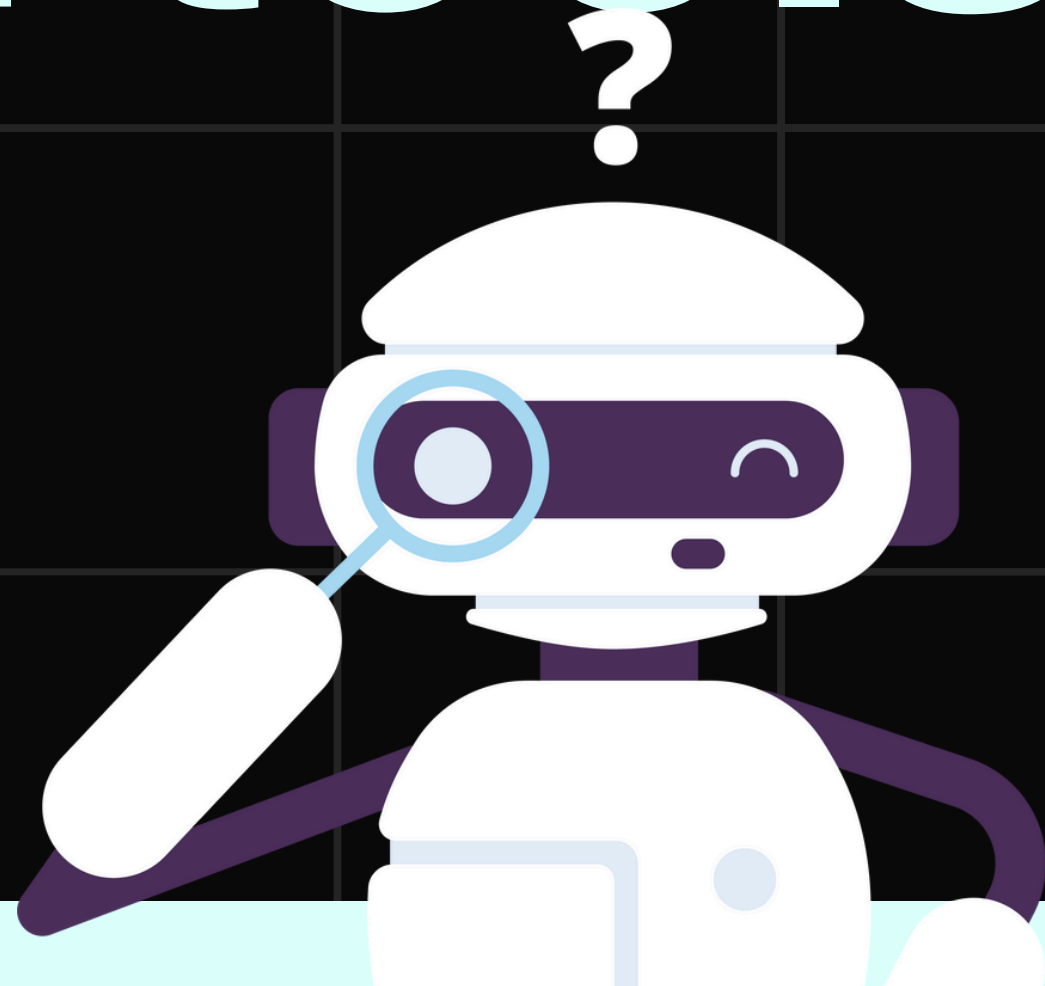


# BENEFITS OF THE SOLUTION:

- **One-Stop Tool:** Everything you need in one place.
- **Easy to Use:** Simple interface for complex tasks.
- **Saves Time:** No need to switch between apps.



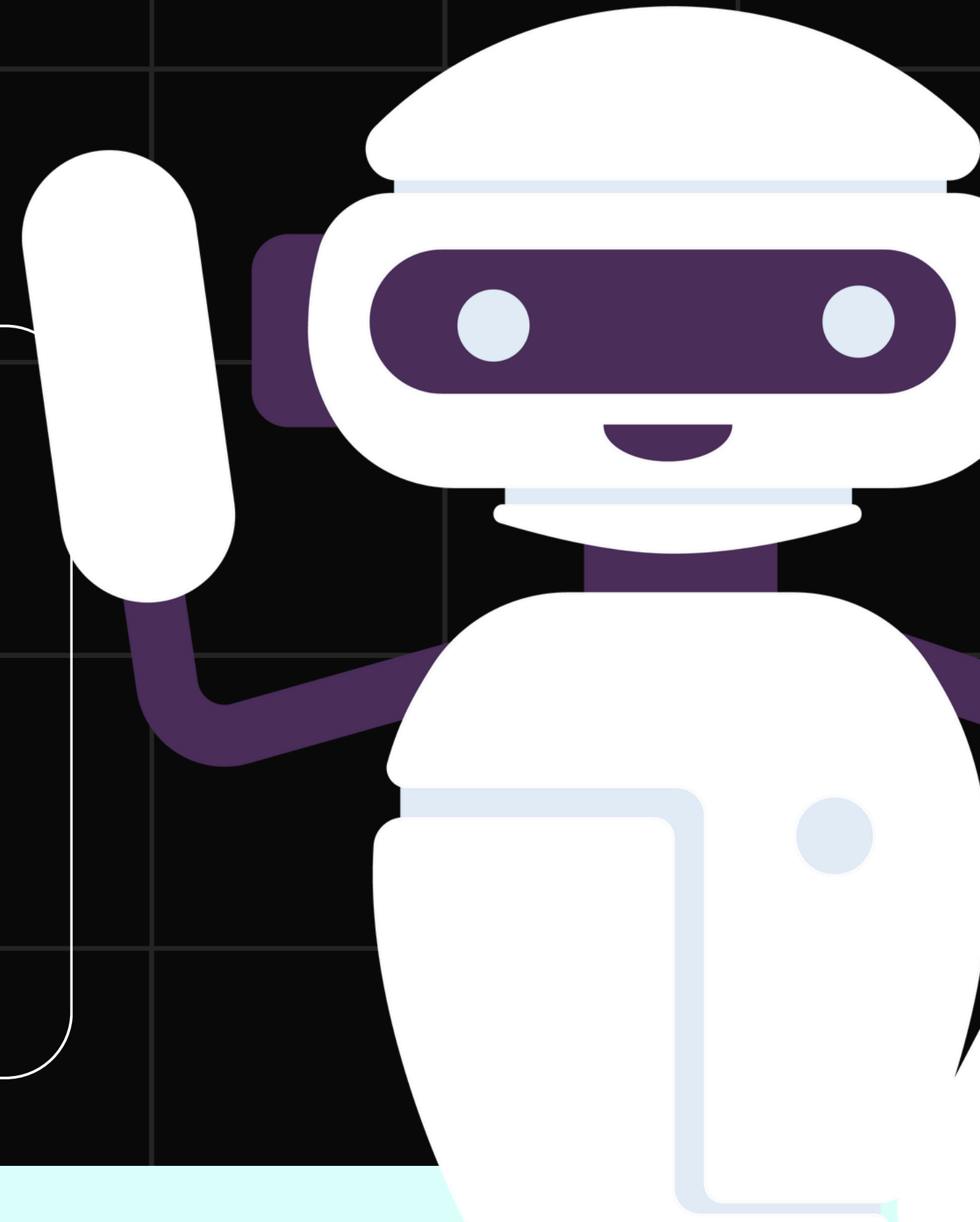
# Libraries and tools:



- **Gradio:** For creating interactive interfaces.
- **Transformers:** For text and image processing.
- **Diffusers:** For text-to-image generation.
- **Whisper:** For speech-to-text transcription.
- **gTTS:** For text-to-speech synthesis.
- **Groq:** For AI-based responses.
- **Google Generative AI:** For advanced text generation.

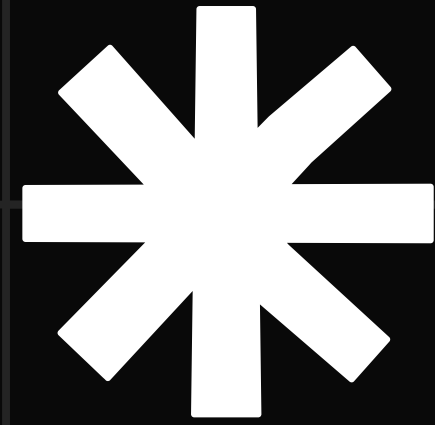
# APIs & Models:

- **Stable Diffusion:** For image generation.
- **BLIP:** For image captioning.
- **SpeechT5:** For text-to-speech.
- **Groq & Whisper:** For speech processing.





TEAM  
MEMBERS:

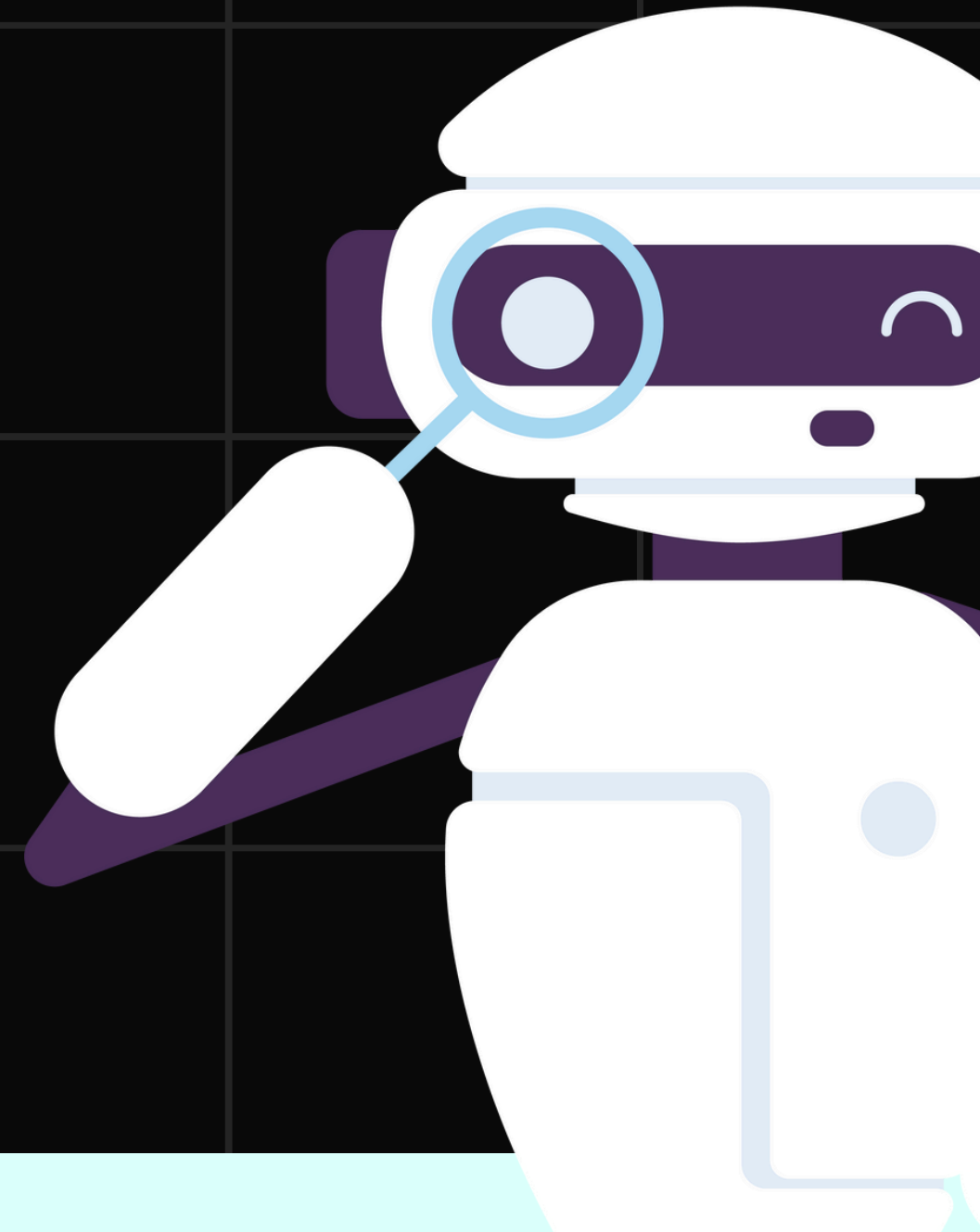
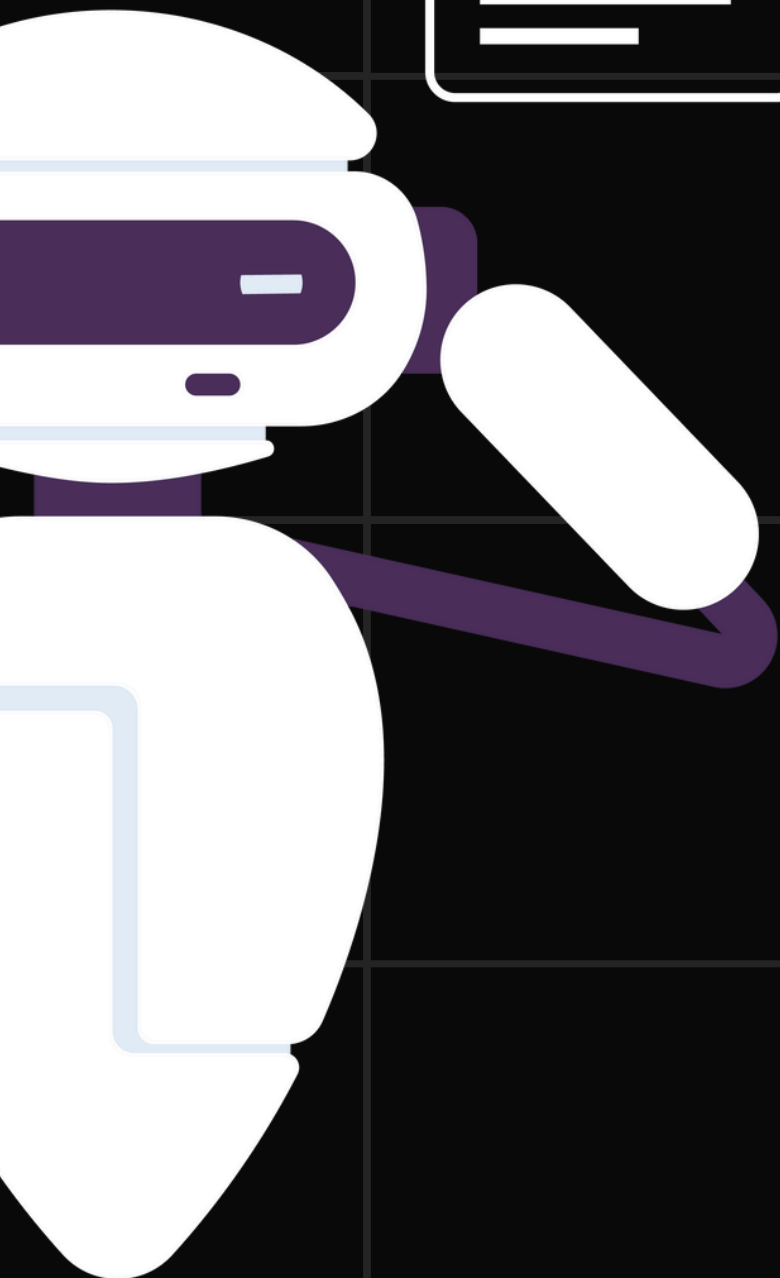
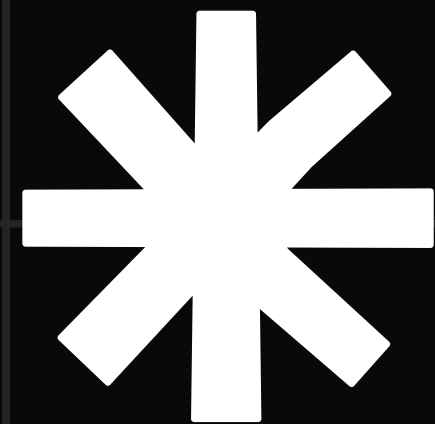


Team name:  
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# Thankyou

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