

# AI Voice Assistant

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for OpenAI stack hack  
hackathon



# Abstract

- I have used Whisper ASR , a TTS model and GPT 3.5 turbo to take a voice as input and work on that by GPT and give the answer in a spe format

# Introduction

- Whisper ASR is a speech recognition model that can convert speech input to text. TTS (Text-to-Speech) is a technology that can convert text to speech. GPT 3.5 turbo is a language model that can generate human like text.
- By using these models together, it is possible to create an AI voice assistant that can understand spoken input, generate a response in natural language, and then convert that response to speech.

# Working

Here's how the process would work:

- The user speaks into a microphone, and the speech is captured as an audio file.
- The audio file is passed to the Whisper ASR model, which converts the speech to text.
- The text is then passed to the GPT 3.5 turbo language model, which generates a response.
- The response generated by GPT is then passed to the TTS model, which converts the text to speech.

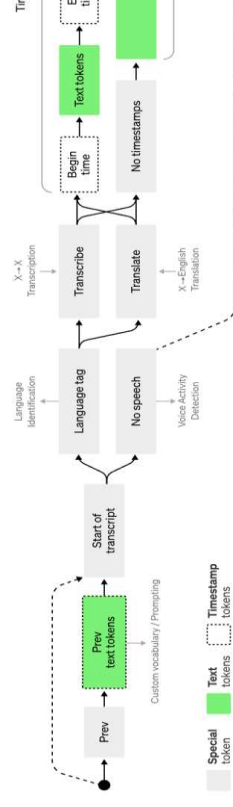
# Working

- The resulting speech is played back to the user through the speakers or headphones.
- Overall, this process allows for a natural, conversational interaction between the user and the AI assistant. The user can speak to the AI in the same way they would speak to another person, and the AI can respond in a way that is both accurate and human-like.

# PROCESS

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## Whisper model

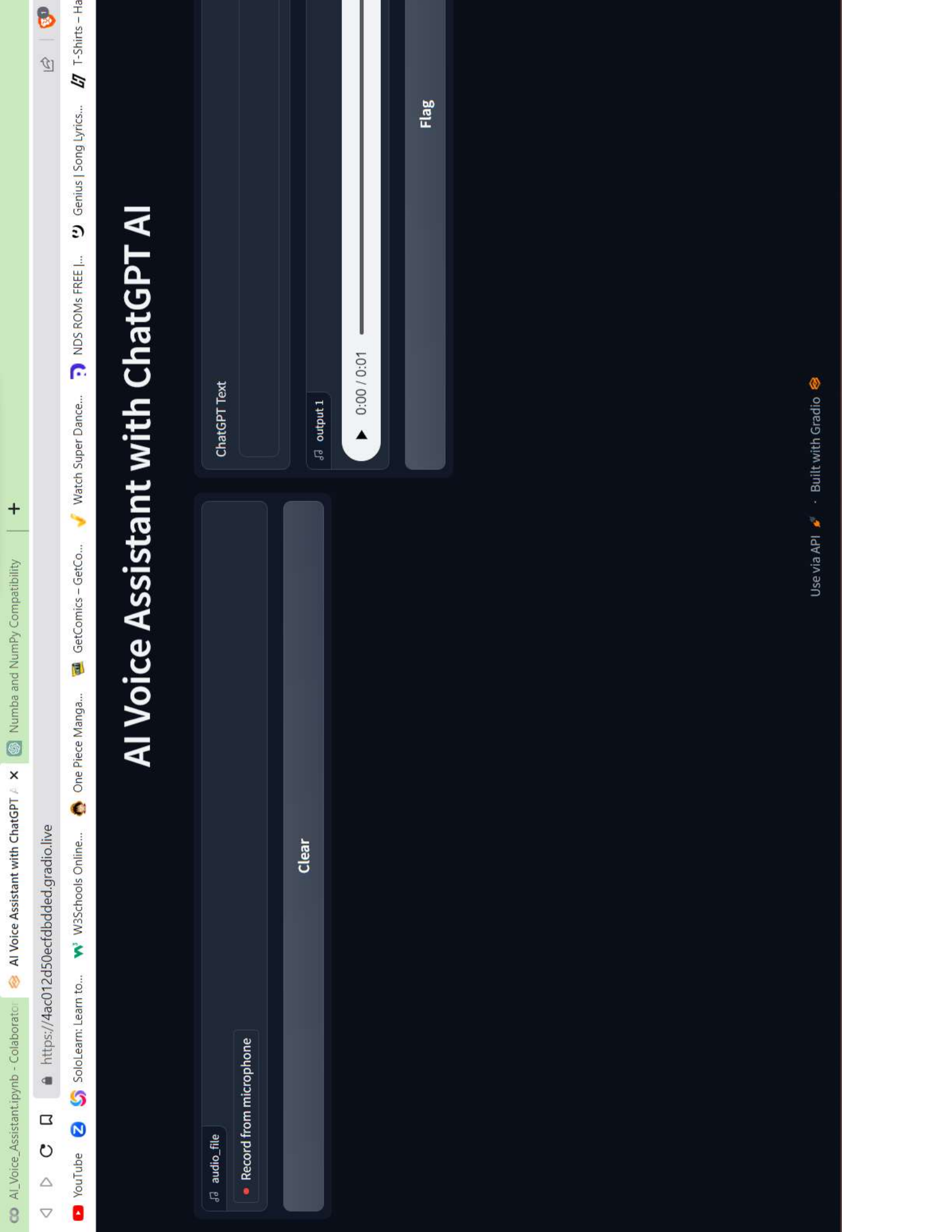


## OpenAI GPT-3



## Coqui text to speech





# AI Voice Assistant with ChatGPT AI

audio\_file

Record from microphone

Clear

ChatGPT Text

output 1

0:00 / 0:01

Flag

Use via API · Built with Gradio



Numba and NumPy Compatibility

AI Voice Assistant with ChatGPT

AI\_Voice\_Assistant.ipynb - Collaborator

https://4ac012d50ecfdbdded.gradio.live

YouTube SoloLearn: Learn to... W3Schools Online... One Piece Manga... GetComics - GetCo... Watch Super Dance... NDS ROMs FREE |... Genius | Song Lyrics... T-Shirts - Ha

# Business value

- Improved customer service: AI voice assistants can help customers get the information they need quickly and easily, without the need for human intervention. This can lead to faster response times, improved customer satisfaction, and increased loyalty.
- Cost savings: By automating certain tasks, such as customer support, AI voice assistant can reduce the need for human labor and help companies save money.
- Increased productivity: With an AI voice assistant handling routine tasks, employees can focus on more complex and strategic work, leading to increased productivity and innovation