Privacy, AI, IoT
Privacy is becoming more difficult to maintain as IoT (Internet of Things) becomes more advanced. AI algorithms like CHATGPT use exclusively publicly available information. However, its usage of public data is still an invasion of privacy.

Future Improvements
It is difficult to manage the privacy side of this project as the microphone is constantly recording. A better method would be to have a wireless travel-sized device that physically cuts power to the microphone whenever not used. This could be done with an ESP32 board with a mini microphone attached that toggles with a button press. (VIEW FIGURE 1)

Other functions
- Plays devil's advocate with user's voice.
  - Helps you think about your work/ideas using constructive criticism
- Reads book segments in your own voice.

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Thanks to the ProperData team at UCI for assisting with the hardware portion and the development of the physical circuit.

System Design and Implementation
How it works:
- Diagram with building blocks (Figure 2);
- Design:
  - Whisper - localized Speech to Text - fast response time, utilizes cuda cores
  - OpenAI API to get ChatGPT's response from Whisper's generated text
  - Elevenlabs API using Anugrah's voice to make the assistant sound realistic
- Pictures (setup, screen shots, etc. see images to the left);
- System prompt, Part of code if applicable.