**About the Project**

This project is a web app that converts speech from audio files into text using the Whisper model by OpenAI. It allows users to upload audio, optionally reduce background noise, and get a transcript on the webpage.

**Tools I Used**

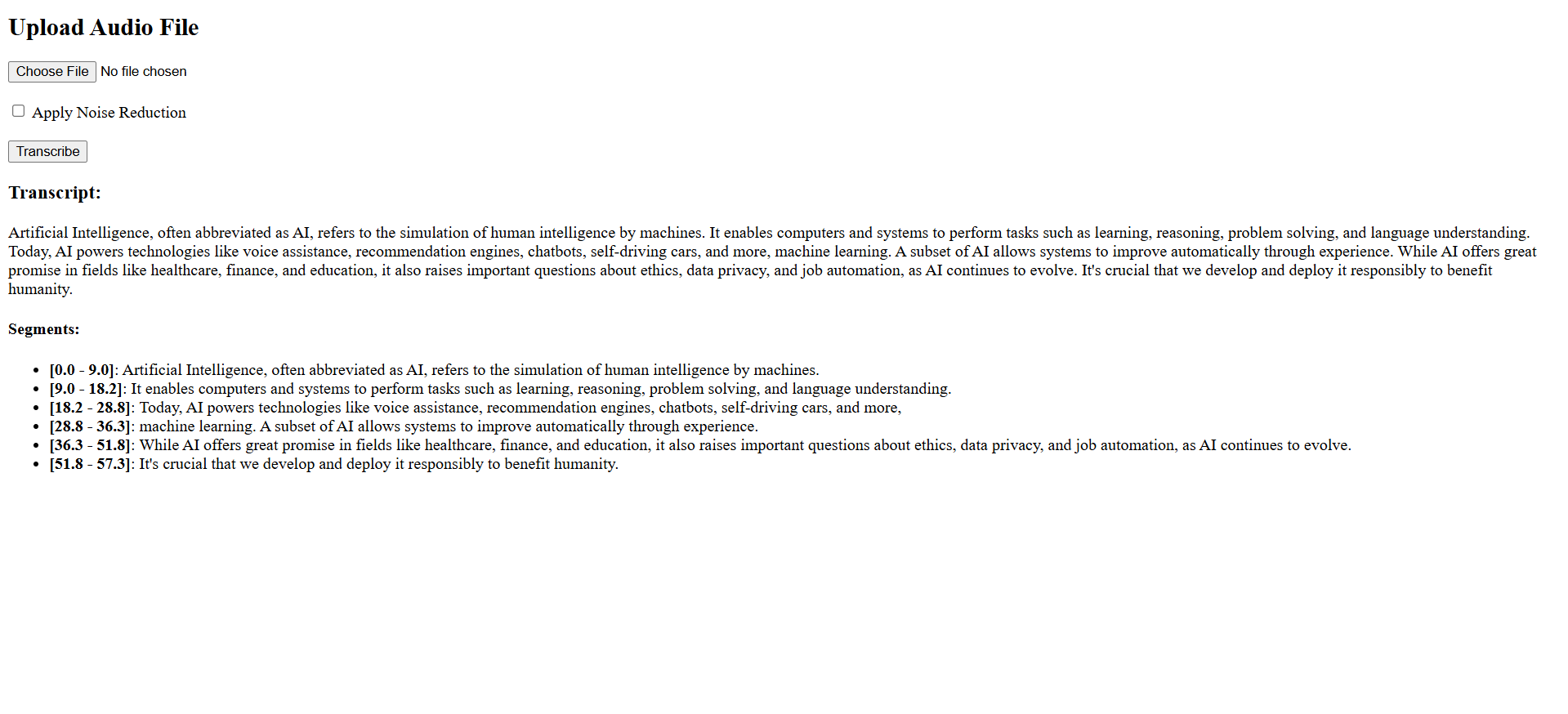
* **Flask**: To build the web server and interface.
* **Whisper**: For speech-to-text transcription.
* **Librosa & Soundfile**: To process audio files.
* **Noisereduce**: To clean noisy audio.
* **Ngrok**: To expose the local Flask app to the internet.

### Working Process

The user uploads an audio file via the web page. If selected, noise reduction is applied. The audio is temporarily saved and passed to Whisper, which transcribes the speech. The transcript is then shown on the webpage. Ngrok creates a public URL so others can access the app remotely.

**Output**

The app displays the text transcription of the uploaded audio and shows detailed segments of the speech for better understanding.

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