

Task: Translate a Video from English to German

Objective: Create an MVP for video translation.

Inputs

- A video file with original audio.
- The original transcription of the audio.

Outputs: A new video with the translated audio in German.

Requirements

1. **Audio Translation:**
 - Translate the audio from English to German, while preserving the identity, tone, and quality of the original audio.
2. **Video Synchronization:**
 - Revise the video with the new audio.
 - Ensure that the video remains synchronized with the new audio throughout.
 - Smooth out any visual distortions or discontinuities to maintain a natural flow.
3. **(Optional) Lip-sync:**
 - Adjust the lip-sync to ensure the video accurately reflects the new audio, with matching lip movements.

Deliverables

- **Code Repository:**
 - A public GitHub repository containing:
 - The source code for the solution.
 - A `README.md` file with:
 - Detailed setup and execution instructions.
 - General review of the pipeline and its main steps.
 - Notes on any assumptions or limitations of the solution.
 - Example commands or scripts to test the functionality.
- **Example Input Files:**
 - A sample video file with original audio.
 - The original and translated transcriptions for testing.
- **Example Output Files:**
 - The new audio file generated based on the translated transcription.
 - The updated video file with seamless transitions and synchronization.

Submission

- Push the solution to a public GitHub repository and share the link. Ensure the repository includes all necessary dependencies (e.g., `requirements.txt` or `Dockerfile`) and clear instructions for testing the solution.