$\ \square$ Speaker Expertise Recognition: $\ \square$ Speaker Expertise Recognition:

- Focused on identifying and attributing audio segments to specific speakers based on their expertise, ensuring that each speaker's contributions were properly recognized.
- Used speaker diarization techniques with tools like pyannote.audio to detect speaker boundaries and label speaker segments accurately.
- Applied custom models or pre-trained ones to classify the expertise of the speakers by analyzing their speaking style, content knowledge, or past interactions.

☐ Transcript Generation for Large Audio Files:

- Worked on breaking large audio files into smaller, manageable segments to generate more accurate transcripts.
- Encountered issues with maintaining context and continuity between segments while generating transcripts, leading to incomplete or fragmented outputs.
- Applied strategies like:
 - Overlap Segments: Ensured there was some overlap between adjacent segments to maintain contextual integrity.
 - o **Batch Processing:** Split the audio file into batches and used parallel processing to improve speed and efficiency.
 - o **Whisper and Other Models:** Used Whisper or similar models for transcription, optimizing them to handle longer audio durations effectively.

☐ Optimization Challenges:

- Despite creating segments, the generation of transcripts for large files was still slow or produced incomplete results.
- Encountered memory management issues when processing long files and tried to optimize by handling audio chunks in memory-efficient ways.
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