

## Project Daily Log # 6

Day : 24/02/2025

Start time : [ 8 AM to 2 AM ]

Location : [ Loyalist College Campus ]

### Task Summaries / Logs

#### 1) New Transcriber with OpenAI's Whisper

Details : Working on a new transcriber function that will use whisper model instead of vosh.

Duration : 8:30 AM to 10:30 AM

#### 3) Test fast Transcriber

Details : Comparing the new transcriber with older one to test both accuracy & speed.

Duration : 10:30 AM to 11: AM

#### 4) Implementing Parallel Processing

Details : Used parallel processing with the [multiprocessing] library along with a sub module [faster-whisper] for faster processing.

Duration : 11 AM to 1:30 PM

### Notes / Observation

- 1) The audio does not require to be converted into .wav format as whisper can take audio data in mp3 as arrays.
- 2) Multiprocessing works fine now. With processing a 10 minute video in roughly a 40-45 seconds improving from previous 11 minutes processing time.
- 3) The setup works locally on condition that the whisper model is initialised into the system once.

### Task for Next Lesson

- 1) Research on how to utilize the transcript in a better way to get the chapter boundaries.
- 2) Research on implementing a way to efficiently include the video also in the system.