

Time: 9/1/2024 – 23/1/2024

Happy New Year!

We have come back from holidays and these are the things we have been up to:

Firstly, we produced a coding plan regarding the components of the podcast:

AI Script Generator:

- Purpose: To generate scripts simulating conversations between two AI-generated guests or discussions over a YouTube clip.
- Technology:
 - GPT-4 like models whether it by hosting with LMStudio or using OpenAI's API
 - We can use Encoding and decoding functions to vector data and find close or similar contents on the internet and make it into a script

Video Clip Processing:

- Purpose: To analyse and process YouTube clips that the AI guests might discuss.
- Technology:
 - Use natural language processing (NLP) models to transcribe and understand the content of the clips.
 - Models like Google's Video Intelligence API can be helpful for extracting meaningful data from video content.

Audio Generation:

- Purpose: To convert the generated script into audio.
- Technology:
 - Text-to-Speech (TTS) engines like Google's WaveNet or Amazon Polly can be used to generate realistic human-like speech from the text.

Video/Audio Graphics Generation:

- Purpose: To create visual content that accompanies the podcast, including animations or static images.
- Technology:
 - Tools like RunwayML or custom-built solutions using libraries like TensorFlow or PyTorch can generate visuals.
 - For more dynamic graphics, you might consider integrating with graphics software or engines.

Video Editing and Composition:

- Purpose: To combine audio, video clips, and graphics into a final podcast video.
- Technology:
 - Automated video editing software or custom scripts using libraries like OpenCV or FFMPEG.

Hosting and Distribution:

- Purpose: To host the generated podcast on a website and distribute it.
- Technology:
 - Web hosting services (e.g., AWS, Azure) for storing and serving the podcast files. You might also consider using podcast distribution platforms to reach a wider audience.

And we've split the tasks that need to be done:

- AI scripts - Ken
- Video Processing - Ken
- Audio Generation - Kirill
- Video/Graphics Generation - Kirill
- Video Editing - Kang
- Hosting and Distribution (This involves Frontend stuffs) - Kang

We've already made some progress on the script generation and started audio generation and web deployment.

We have also done a pitch presentation, talking about what our project is about, what the goals are, what we've already done and what the final product is projected to look like.

The plan for the next week is to:

- Continue coding the 6 main components.