



Womanium Global Quantum Computing & Entrepreneurship Program

Video AI Challenge

Challenge: Many of you know (and complained about) the Womanium team's delays in uploading a recording of the day's session to Youtube for later viewing. The delay was caused because of our desire to put a high-quality, well-processed video that we know would be on the internet forever. And that means that many of the elements of a live session such as long pauses to fix tech issues, transitions between speakers or even pauses in between a speaker's talk had to be fixed so that the end video is of the quality we're all accustomed to seeing from popular youtube content makers.

So what did we do? We used one of the best video editing softwares, BlackMagic's Da Vinci Resolve, to edit and process the video. It took our team of 3-5 people 6X time (6 hours per 1 hour of video) to cut and edit out filler words such as 'umm', 'aaa' or 'like' etc. that nearly every speaker used (notice that top speakers on the internet are very good at avoiding filler words, especially since their videos are rehearsed, recorded and extensively edited). So our team went frame by frame, and edited out such filler words. Despite doing significant research, we could not find any tool that can automatically edit out such words

To goal of this challenge is to:

- Build an AI-based model that can automatically identify filler words
- Create a simple plug-in/extension that can alert users to the filler words and allow them to cut one or many filler words simultaneously
 - The extension can be a browser extension that works on youtube or a plug-in for Da Vinci/QuickTime or other popular video editors
 - Standalone application like Recut or TimeBolt
 - Smooth transition for video and audio
- Minimum viable product - you will be provided a long video clip (30

<W|Q>

minute plus) and your product should be able to live-edit it within <5 minutes and remove the filler words while smoothly going to a clean transition