

Team Name: sddec21-06

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Report Period: Mar 15-Mar 28

Summary of Progress in this Period

In this period, our team made a lot of progress on research for different speech-to-text open source software that we would like to use in our project. The main one that we have found which is a possibility to use is the DeepSpeech open source software. We have spent some time experimenting with it on the data that DigiClips collects from television recordings and have gotten accurate data in return when comparing it to a manually transcribed script of what was said in the audio files. A few other open source speech-to-text options have been researched, but they were not up to the standards that the DeepSpeech software was at. Also, we have started updating the design document with more up to date data about our project and fixing any errors that were pointed out to us from the first version.

Pending Issues

The main issue for the team to look into in this upcoming period is seeing the compatibility of DeepSpeech with C. If DeepSpeech cannot run in a C environment, we will need to consider using a different open source software that will be more compatible with the code that already exists in the DigiClips system. The main issue is that the system needs to process a lot of data as quickly as possible since the data never stops being collected. Doing this process in a slower language, such as Python, could cause a backup which will constantly get bigger and bigger, which leads to the desire to find some open source software that can run in C. The other, smaller issue that we need to watch for is a way to add punctuation to the Speech-to-text component. The team at DigiClips has asked us to incorporate a way to add punctuality to the system, such as commas or periods in appropriate spots.

Plans for Upcoming Reporting Period

In the upcoming period we will finish our research on the speech-to-text component of our project and come to a decision on what open source software we will like to use. This software will then either work correctly, or we will be trying to modify it to work how we would like it to work for our project. We will also begin researching the video-to-text options available to us as well. The final thing we will be doing in this period is completing the second version of the design document to turn in for our final round of feedback.
