Subtitle-AI

Team Member

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Problem Statement

Closed captioning displays the audio portion of a television program as text on the TV screen, providing a critical link to news, entertainment and information for individuals who are deaf or hard-of-hearing. The importance of this project is to enhance the educational learning experience for students and others with disabilities. There should be no restrictions for simply trying to watch a video or anything related to the sorts. With subtitles/closed captions it will help eliminate this issue by being able to provide it to services that don't already provide their our closed captions. This relates to work that we have done in the class because it is building on

Model Accuracy Measure

The metric that we will use for our project will be transcription accuracy based on the partitioned test data set. Our baseline aim will be for at least 50% transcription accuracy on testing data for success, looking to push for much higher accuracy if we have time to do so.

Abstract

Background

Method

Result

Analysis

Future direction

Resources

OpenSubtitle Corpus

Data Set

Blog

Netflix Automated Subtitles

How to Build a Real-Time Transcription App in Python

Automatic Subtitle Synchronization through Machine Learning

How to Perform Real-Time Speech Recognition with Python

How to Create Subtitles for any Video with Python

Adding closed captions and subtitles

Automated Audio Captioning

Research Paper

NLP Driven Ensemble Based Automatic Subtitle Generation and Semantic Video Summarization Technique