

Journal 0

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1 Introduction

With billions of videos watched, people seek short and accurate summaries to quickly gauge interest of these videos. Advances in NLP and LSTMs can result in both accurate audio conversion and text summarization. Our project is developing a robust algorithm built off of previous technologies with improvements for summarization of videos into text.

2 Obstacles

Potential challenge may include a lack of annotated TED talks in a pre-formatted data set. In addition, determining precise features for text summarization will rely on a fair amount of experimentation apart from checking the literature on what has traditionally worked well.

3 Materials

We will likely need access to a GPU cluster to train machine learning model variations.

4 Beginning Steps

Our first tasks will be creating and annotating a data set with TED talks. We will also research online to see if any analogous data sets have been created for TED talks or other data types to learn what types of initial features may be useful. After that, we will look into various video processing algorithms and summarization techniques.