

# 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 obstacles I foresee is having too small of a data set of TED talks, which is not optimal to train machine learning models. In addition, I might have a hard time implementing a LSTM as I do not have much knowledge on this type of machine learning model.

## 3 Materials

For this project we will need a computer with a great GPU and enough RAM to be able to process all of our data and handle the training of our models.

## 4 Beginning Steps

My first task for this project is creating a formatted data set of TED talks, as they have given transcriptions that can later be used as a basis for results. If we do not have enough TED talks, we will add Khan Academy videos to the data set as they also have given transcriptions. After this I will process the data to allow for a more robust algorithm in the future.