Imagine a world where you understand every word spoken by any human. Sounds interesting right!

Allow us to aid you to launch in such a world.

You

Our Interface

Desired World

Problem Statement:

Generating Transcripts from video or audio using live Recording, also recognizing emotion from tone.

Design an intelligent algorithm leveraging Natural Language Processing, Speech Recognition, Machine-Learning techniques that can transcribe, generate closed captioning subtitles of spoken words in various Indian Languages during a Live Broadcast or from a recording, along with the emotion of the speaker, and making a summary of it.

Additional Information

- Priority Languages – English, Hindi, Tamil, Telugu
- The Transcribed data needs to be stored and solution should consider this requirement

Solution:

We have designed an application which takes in audio files as input in the above mentioned four languages and output the following:

1. Transcripts the speech
2. Tone of the speech
3. Extracts the summary

We have used Django framework for the development of the application. We have integrated many API's and used python libraries to build the same.

Tools Used:

Framework: Django

APIs Used:

- ✓ Watson Speech to Text API
- ✓ Watson Tone Analyzer API
- ✓ Google Speech to Text API (other than English)

Python Libraries:

- ✓ Request library
- ✓ JSON library
- ✓ Gensim library (Summarization)
- ✓ Base64 library
- ✓ Translator

Tour Guide:

Step 1:

 Choose the language you want to convert from speech to text.

Step 2:

Upload the audio file.

Step 3:

Analyse the text, tone and summary.

Step 4:

Download the transcripts generated.

Team Details:

Team Name: "Divide & Conquer"

Team Members:

    Team Leader: 1. U. Sneha Lekha

                  2. Shobab Guggila

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