

AN AUDIO FILTERING, SPEAKER SEPARATION AND INFORMATION EXTRACTION SERVICE



# SPEAKSIEVE

Engineering Based Project

GROUP-2

AKSHITA GUPTA (2020491), CHARVI JINDAL (2020045), CHETAN (2020046), JOGITH S.  
CHANDRAN (2020072), SHIVAM AGRAWAL (2020124), UTKARSH ARORA (2020143)

# INTRODUCTION

Audio clippings are used widely to share sounds

They are a source of valuable information

It is extremely tedious to manually extract your favourite part from the audio or mute unwanted parts

Current tools are complex, require expertise and understanding, along with good hardware, which obstructs a naïve user from using it

Hence there is a need for simpler tools

---



Our web tool provides features to execute tasks such as censoring and extraction from audios with absolute ease

User simply needs to upload the audio, click a few buttons and get an accurate result in minutes

Our tool is very intuitive and easy to use

It is streamlined for the use, hence doesn't confuse the user or make it complex for them.

---

# NOVELTY

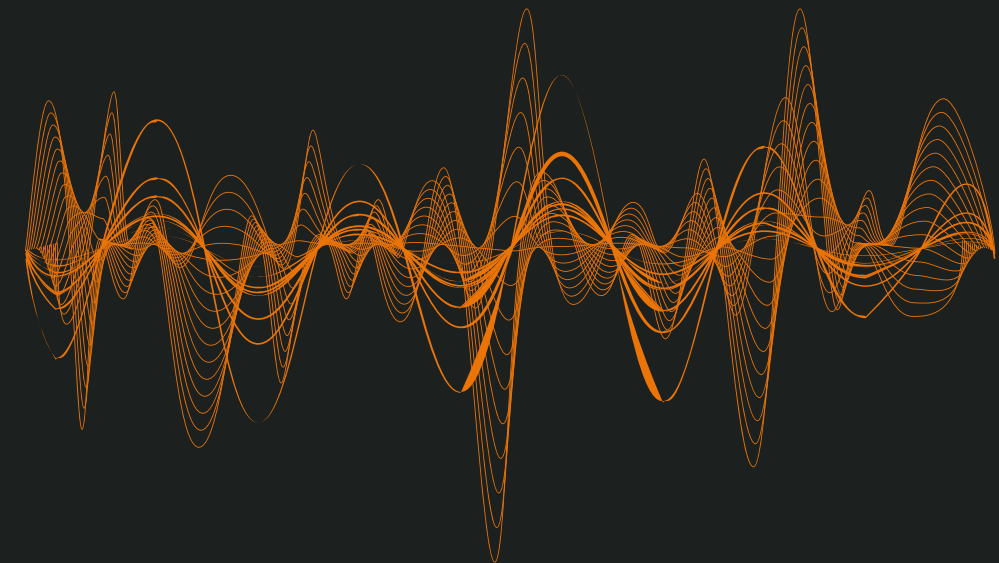
Fully automatic, saving time and effort for users

Integrates all features into a single platform, and also stays streamlined

Performs the resource-intensive tasks on the server's machine, reducing the burden on the client's end.



# FEATURES AND USE CASES



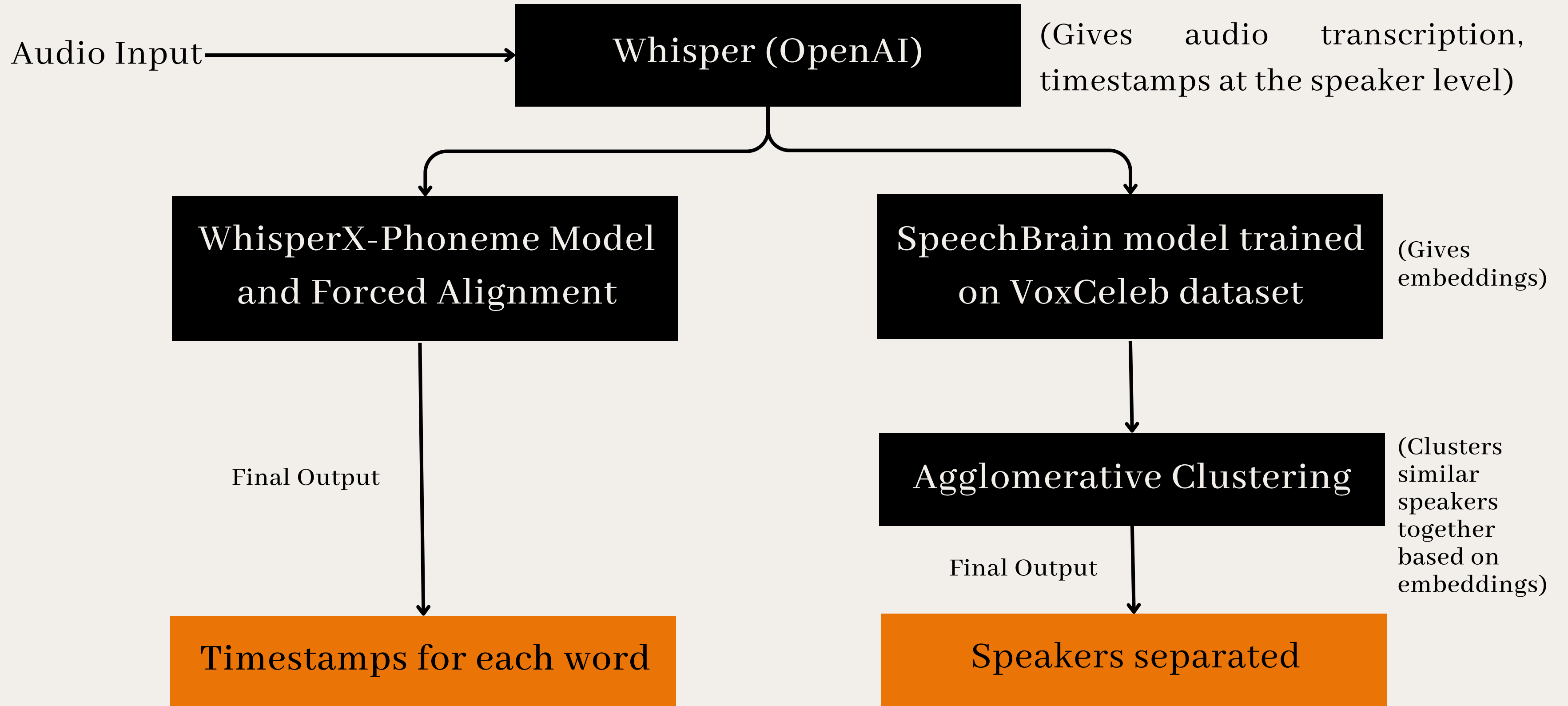
## Features

- Mute certain phrases/words in the audio
- Extract particular phrase/word from the audio
- Extract audio corresponding to a particular speaker
- Speaker separation

## Use Cases

- Censor audios to make it child safe, remove hateful comments, sensitive content, etc.
  - Get particular dialogues from a movie for video editing
  - Make lecture, courtroom notes from recordings
  - Keeping only the content spoken by the professor and removing other audio
-

# MODELS

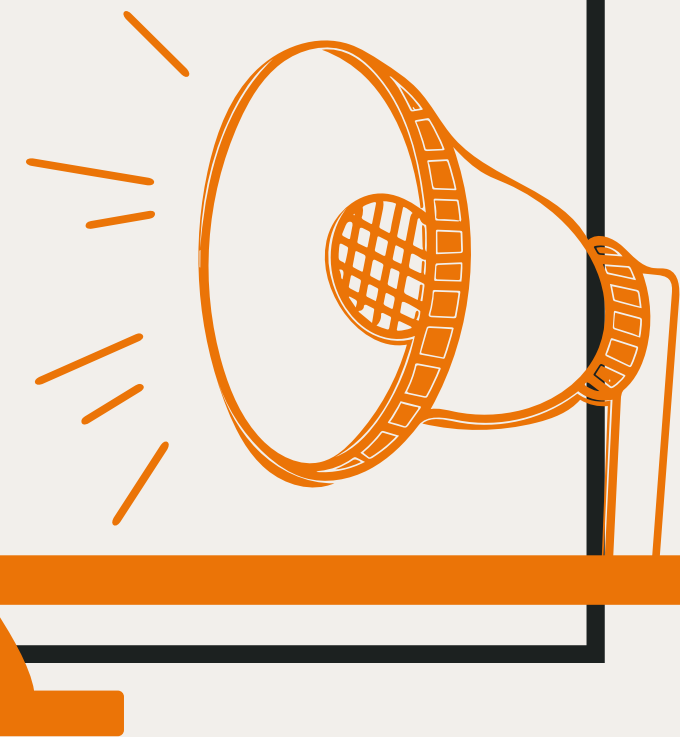


# FRONTEND

React JS

React Bootstrap

Fast API, implemented using Uvicorn



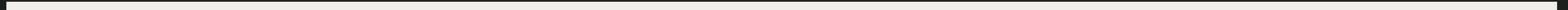
**GITHUB LINK**

---



**WORKING DEMO OF THE WEBSITE**

**LINK TO AUDIO USED FOR DEMO**



# THANK YOU

