LINGUAVOX

LINGUistic **A**udio-**V**isual **O**verlap e**X**perience

DOCUART

DOCUment **ART**ification

Team II Hackathoners

LINGUAVOX

https://www.youtube.com/watch?v=DiJMAvmA1Ns

MINDEF/SAF Use Cases for LINGUAVOX

Pain Points:

- Multiple re-recordings of presentations due to NGs
- Manually intensive to video-record long presentations

Capabilities: <u>Text</u> to <u>Cloned</u> <u>Talking-Head</u> Video Generation with <u>Personal Voice</u>
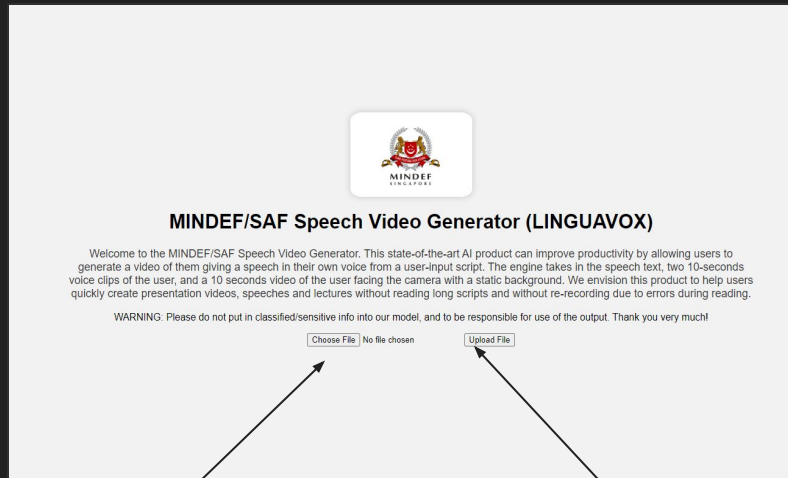
- Instructional videos
- Realistic virtual clone to respond to text-based queries

Use Cases:

- Education and Training videos
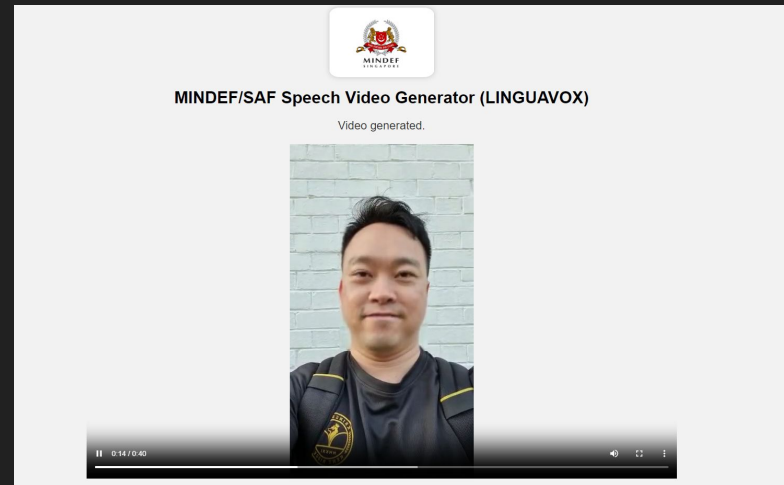- Virtual Assistants
- Marketing
- Speech

Steps to use LINGUAVOX

1. **Choose a zip folder, containing 3 types of files, in the home page:**
   - **2 or more clips of audio recordings of one's voice (10 seconds each)**
   - **1 front-view video recording of one with static background (10 seconds)**
   - **Script to be read**
2. **Click "Upload File" and wait for video to load**
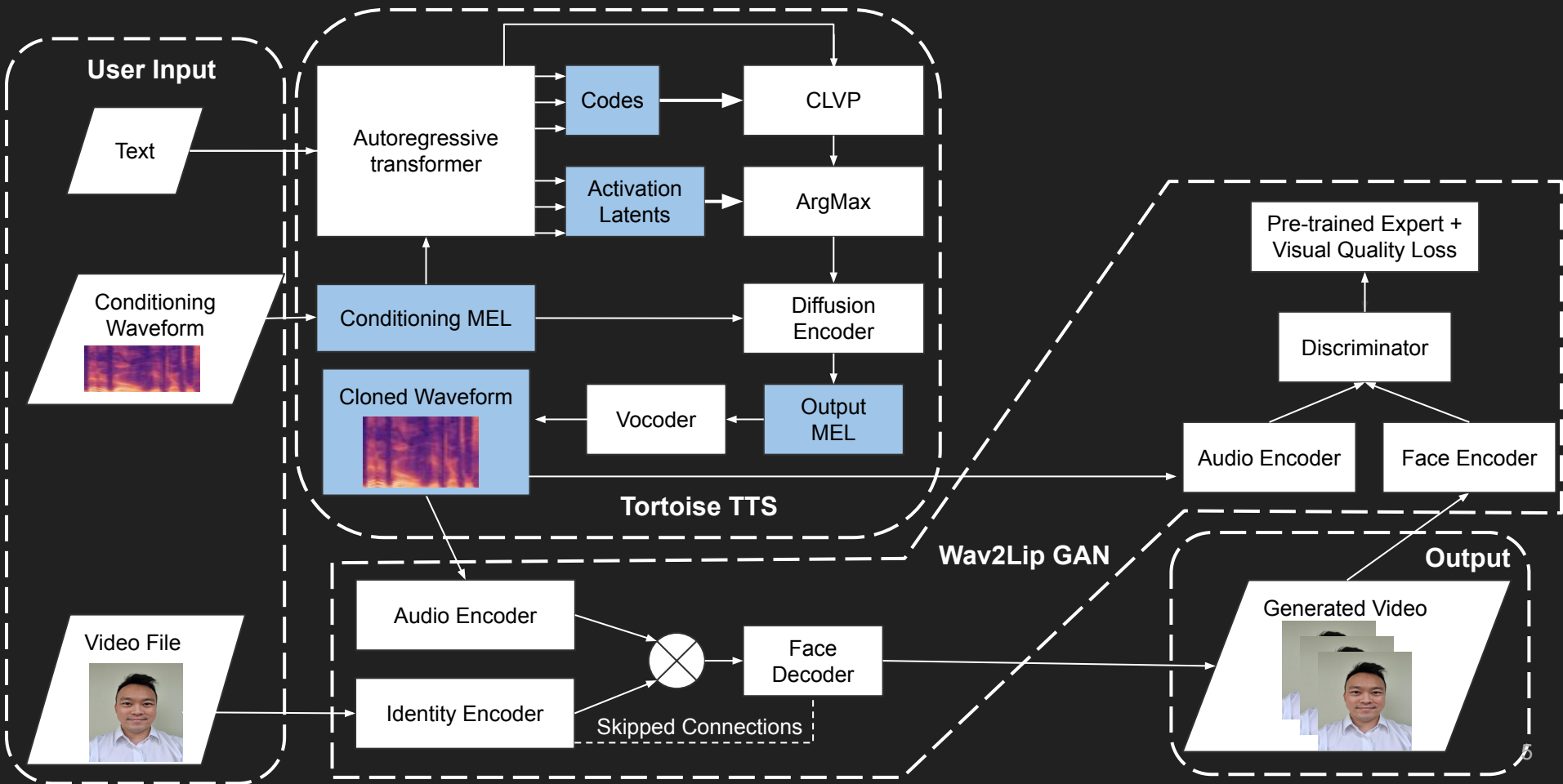3. **Download generated Video**

Step 1: Click "Choose File" to upload zip folder

Step 2: Click "Upload File" to start generating video

Step 3: View and download the video

LINGUAVOX: Multi-Modal State-of-the-Art AI Architecture
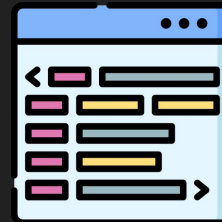
LINGUAVOX Demo

View the demo here: https://www.youtube.com/watch?v=DiJMAvmA1Ns

Future Works for LINGUAVOX

Train LINGUAVOX with more audio files containing our native accent

Explore the use of cartoons/animated characters for video input for security purposes

Potential future optimisations of models used for faster generation of video