

# LINGUAVOX

---

**LINGU**istic **A**udio-**V**isual **O**verlap  
e**X**perience

# DOCUART

---

**DOCU**ment **ART**ification

## Team II Hackathoners



A stylized, light gray line-art graphic on a dark gray background. It depicts a profile of a human head facing right. Inside the head, there is a large gear with eight teeth. To the left of the gear, there are three small circles connected by lines, resembling a circuit or a neural network. The head is resting on a base that looks like a computer monitor or a stand with a screen. The overall theme is technology, language, and cognition.

# 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: Text to Cloned Talking-Head Video Generation with Personal Voice

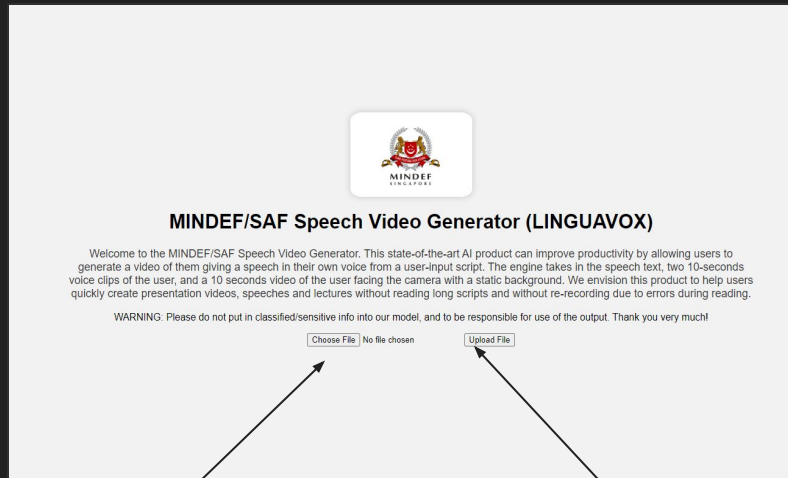
- Instructional videos
- Realistic virtual clone to respond to text-based queries

## Use Cases:

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

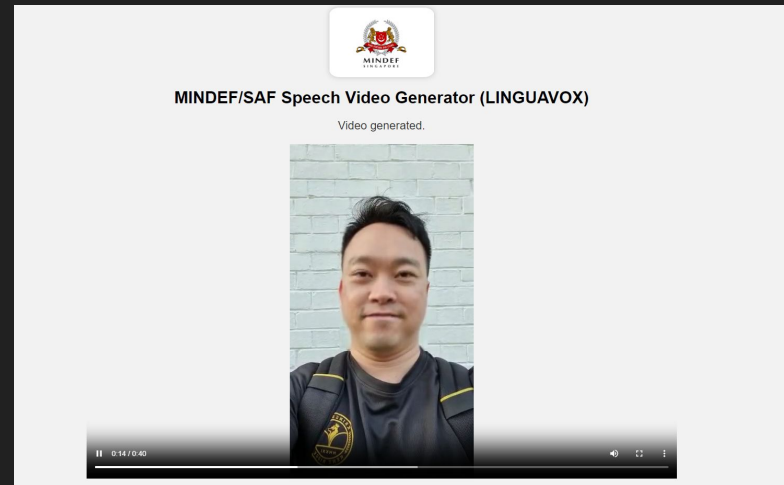
# Steps to use LINGUAVOX

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



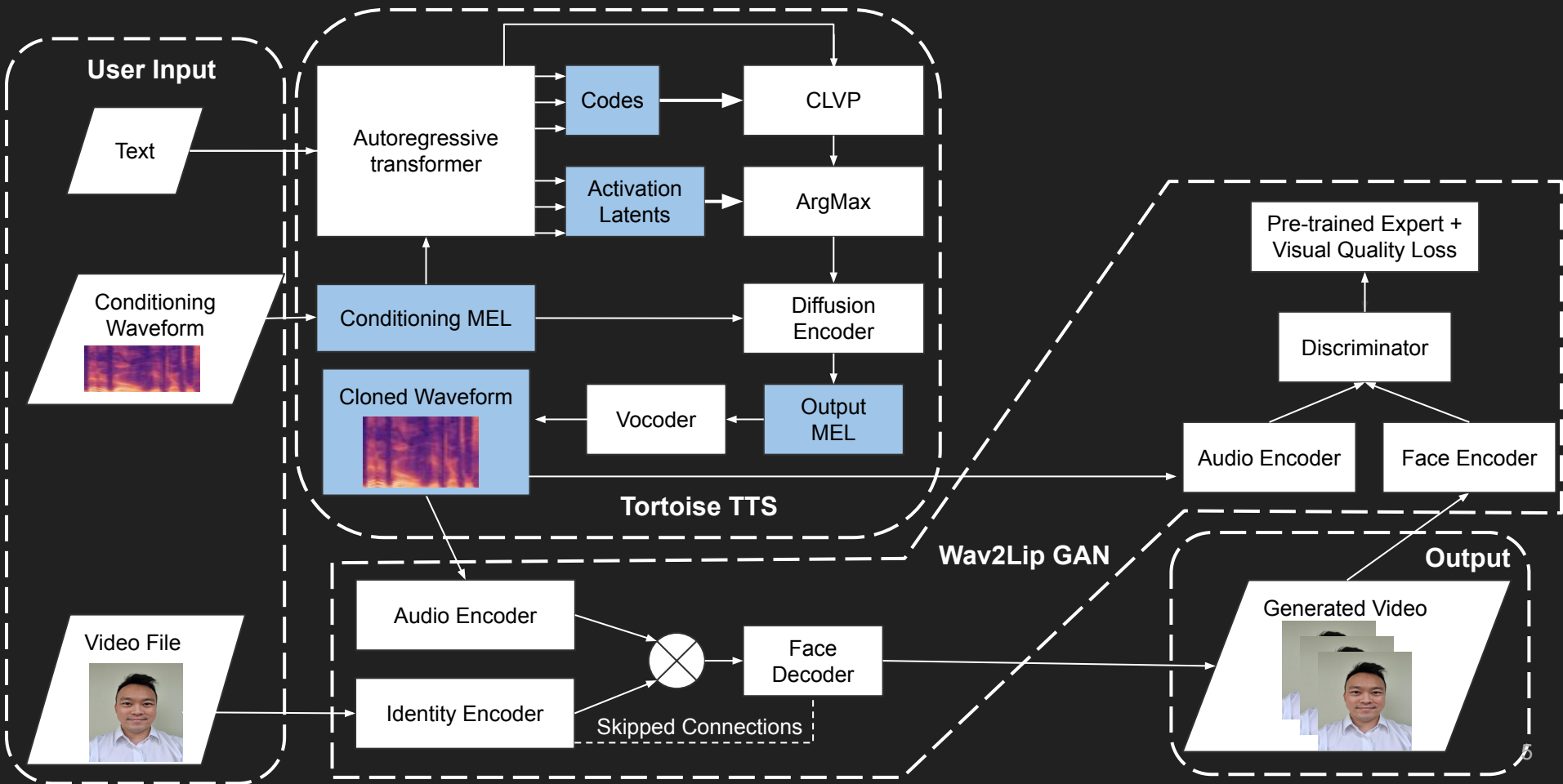
Step 1: Click "Choose File" to upload zip folder

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>

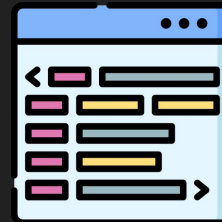
# Future Works for LINGUAVOX



**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**