**Internship Assignment: Lip Sync Model Implementation**

**Objective:**

The objective of this assignment is to implement an existing open-source lip sync model and generate output videos using provided input data. Candidates will work on setting up, running, and demonstrating the model’s effectiveness.

1. **Clone the Repo.**

Wav2Lip (<https://github.com/Rudrabha/Wav2Lip>)

1. **Create and activate a virtual Environment.**

**python -m venv wav2lip\_env**

**wav2lip\_env\Scripts\activate**

1. **Install Dependencies**

**pip install -r requirements.txt**

1. **Download pretrian model.**

**Placed download fills.**

wav2lip\_gan.pth

face\_sync.pth

To download:

bash

CopyEdit

mkdir checkpoints

wget -P checkpoints/ "https://github.com/Rudrabha/Wav2Lip/releases/download/pretrained/wav2lip.pth"

wget -P checkpoints/ "https://github.com/Rudrabha/Wav2Lip/releases/download/pretrained/wav2lip\_gan.pth"

1. **Convert text to audio in elevenlabs**

Generate speech audio with an Indian accent using ElevenLabs, Google Wavenet, or any TTS tool. Save the output as input\_audio.mp3

**Steps:**

1. Visit [ElevenLabs](https://elevenlabs.io/).
2. Input your text (e.g., "Hello, welcome to the future of AI lip-syncing!").
3. Choose a voice and generate the audio.
4. **Running model.**

python inference.py --checkpoint\_path checkpoints/wav2lip.pth --face input\_image.png --audio input\_audio.mp3

### **Example Input Files:**

inputs\input\_image.png: Image .

inputs\input\_audio.mp3: Audio for lip-sync