# Internship Assignment: Voice over AI agent

Objective: Create a demo web application that allows a user to input text, generate voice using ElevenLabs TTS API, and place a call using Exotel or simulate the call flow using SIP trunk integration (if access to Exotel is limited). This assignment demonstrates your ability to integrate AI-generated voices with real-time telephony systems.

## **Deliverables**

- 1. A functional frontend (React, Vue, or plain HTML/JS) with:
  - A text input field
  - Voice selection dropdown (from ElevenLabs voice options)
  - A "Call Now" button
- 2. Integration with ElevenLabs TTS API to generate speech audio from input text
- 3. Use Exotel API (or any simulated SIP trunk) to place a call using a virtual number, playing the AIgenerated voice
- 4. A README explaining:
  - How to run the project
  - APIs used
  - Any limitations or assumptions made

# **Step-by-Step Expectations**

- 1. ElevenLabs Integration
  - Create a free ElevenLabs account (https://www.elevenlabs.io/)
  - Use their TTS API to convert input text into speech (preferably as .mp3 or .wav)
  - Allow the user to select different voices via frontend dropdown
- 2. Frontend Interface

#### Basic UI to:

- Enter text
- Choose voice
- Click "Generate & Call"

After clicking, send request to backend to generate voice and initiate call

3. Telephony Integration

Use Exotel APIs (https://developer.exotel.com/) to:

• Set up a Connect call to a test number (can be your own)

Play the audio file generated by ElevenLabs as part of the call flow

#### If Exotel access is restricted:

- Simulate SIP trunk behavior (e.g., mock API endpoints or Twilio trial if allowed)
- Optionally include webhook URLs for Exotel or SIP events

# Tech Stack Suggestions (Flexible)

- Frontend: React / HTML + JS / Vue
- Backend: Node.js / Python Flask / Django
- Voice API: ElevenLabs
- Telephony: Exotel (preferred) or SIP call simulation

## **Evaluation Criteria**

- Functionality of voice generation
- Working call integration or simulation
- Code quality and structure
- Documentation and explanation of setup
- UI clarity and ease of use
- Creativity in handling missing features (e.g., audio streaming)

## **Submission Instructions**

- Host the project on GitHub
- Include README.md with instructions and a short demo video or screenshots
- Deadline: Within 7 days of receiving this assignment