How to Run the Project: AI Mock Interview Simulator

# 1. Requirements

Ensure the following tools and libraries are installed:

## System Requirements

- Python 3.8 or above  
- OS: Windows, Linux, or macOS  
- Microphone and audio input support

## Python Dependencies

Install using pip:

pip install tkinter sounddevice pyttsx3 numpy vosk gpt4all

\*Note: tkinter comes pre-installed with most Python distributions. If not, install it via your OS package manager.

# 2. Folder Structure

Place the files and folders as follows:

project\_folder/  
│  
├── main.py # Your Python script  
├── model/  
│ └── mistral-7b-instruct-v0.1.Q4\_0.gguf  
└── vosk-model-en-us-0.22/ # Downloaded Vosk STT model

# 3. Download Required Models

## Vosk Speech-to-Text Model

Download from: https://alphacephei.com/vosk/models

Use: vosk-model-en-us-0.22

Extract it and place the folder as vosk-model-en-us-0.22/ in the project directory.

## GPT4All Language Model

Download from: https://gpt4all.io/index.html

Use: mistral-7b-instruct-v0.1.Q4\_0.gguf

Place it inside a folder named model/.

# 4. Run the Project

Navigate to the project directory and execute the script:

python main.py

# 5. Using the App

1. Launches a GUI Window  
2. Select Role (e.g., Data Analyst, Software Developer)  
3. Click “🎤 Start Interview” to begin  
4. Type answers in the input box or  
5. Use voice input:  
 - Click “🎙️ Start Recording”  
 - Speak your answer  
 - Click “⏹️ Stop Recording” when done  
6. AI responds with follow-up questions  
7. At the end, it gives an evaluation score and feedback

# 6. Notes

* Make sure your microphone is functional.
* If you're behind a firewall or antivirus, ensure microphone access is allowed.
* The app runs completely offline (no internet required after downloading models).