## horizontal line



Human-like AI interviewer

13.04.2025

**─**

Your Name

Your Company

123 Your Street

Your City, ST 12345

# Overview

AI application to help students prepare for online AI interviews. Ideally students upload the job description and the duration of the interview, then they can practice with a human-like AI interviewer, which will ask them questions most likely to be asked by the interviewer. The system then records/saves the students' response for future reference and asks follow up questions or moves on with the next interview question (But how do you decide this?). A Gen AI interviewer interface for human-like interaction with an LLM to generate interview questions. **- SWATHI**

Additionally (if we are recording / saving the data), when the set interview duration is passed, the AI interviewer can provide insights to the student regarding their performance and provide suggestions to improve their answers to ace the actual job interview. **- SWATHI**

Sign you work to track progress **- ROHIT**

1. Look into part where chatgpt has to decide if it has to ask new question or follow up question

# Goals

1. Web interface for input and Output.
2. LLM integration to generate interview questions
3. Conversational AI interface
4. Output suggestions to improve skills through web interface or part of AI interviewer. **- SWATHI**

# Specifications

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## Lorem Ipsum

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# Workflow

* User provides the input through web-interface : Job title, Company name, Job description and duration of interview. In the future we can also concentrate on the type of interview(Technical, cultural fit, use cases, programming etc) or company specific interview preparation(using the web search function of GPTs).
* Then we launch the conversational AI interface with a timer. The LLM can be used to generate the interview question which is used by the AI agent. Then the agent waits for the end response which is usually determined by the click of a button. (Transcription may be needed here and additionally the response could be saved)
* If the duration of the interview is not yet over, then the previous response along with the description is passed to the LLM for generating the next question(but how does this happen?). This step continues till the end of interview duration.
* If the duration of the interview is over, terminate the AI agent. (If the responses were actually saved, then we can use the LLM once again to go over the dictionary of question-answer pairs and provide the user insights regarding their interview performance. It can provide areas/topics of improvement and suggest best responses to questions etc. We need an interface to then display the feedback.) **-SWATHI**

# Task Planning and Progress

| Date | Swathi | Rohit | Notes |
| --- | --- | --- | --- |
| 15th April | Check up on the whisper if its open source or not and if we can use it for free. | Read about the parsing pymupdf |  |
| 16th April |  |  |  |
|  |  |  |  |
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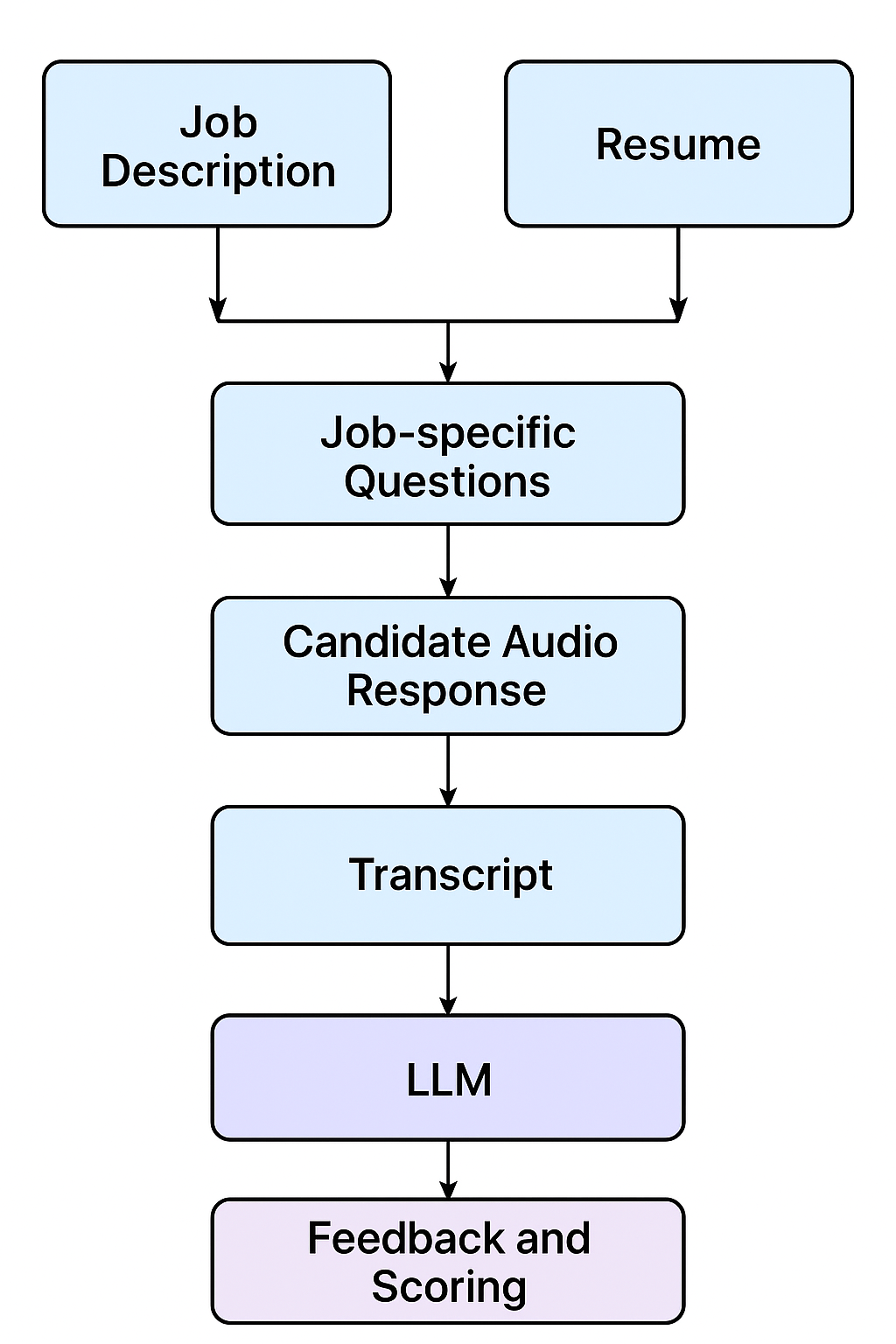
# Milestones

## Lorem ipsum

## Dolor sit amet

Ideas and key concepts

1. Workflow



1. **And this will take the candidates response real time right?**

###### **ChatGPT said:**

**Eventually, yes — but not in Colab.**

Let me break it down:

## **Current Stage (Colab MVP)**

**Candidate’s voice is uploaded** (as .wav/.mp3)

* No real-time mic input in Colab
* Still useful for simulating the process step-by-step

## **Next Stage (App version using Streamlit/Gradio/Web)**

**Yes — fully real-time conversation is possible:**

* Mic input captured live
* Transcribed instantly using **Whisper**
* Question/answer loop powered by **LLMs**
* Responses evaluated + scored in real time
* TTS plays back AI’s reply like a human recruiter

## **How it would work in the final real-time version:**

1. JD + Resume loaded
2. AI recruiter generates and speaks a question
3. Candidate speaks response (live)
4. Whisper transcribes in real time
5. GPT evaluates + gives feedback/scores
6. AI speaks the next question or advice

So YES — once you move to **Streamlit or a lightweight web app**, it will feel like a **live AI mock interview or recruiter call**.

3. **How It Doubles as an Interview Prep Tool**

### **1. Personalized Interview Simulation**

* Upload your resume and a job description
* The AI asks you job-specific questions based on your real experience and the role
* You answer via voice
* It transcribes your answer, analyzes it, and gives feedback + a score

### **2. Constructive Feedback Loop**

* Candidate sees:
  + Transcribed answer
  + Score (1–10)
  + Strengths and weaknesses (e.g., “Good use of examples, but could be more structured.”)
* They can repeat and improve

### **3. Practice Soft Skills**

* With TTS added, it feels like you’re talking to a real recruiter
* Helps candidates work on:
  + Tone
  + Confidence
  + Clarity

### **4. Resume-JD Alignment Coaching**

* Your system can highlight:
  + Skills missing in the resume
  + How well it matches the JD
  + Suggest talking points for the actual interview

## **Two Modes You Can Build**

| **Mode** | **For Recruiters** | **For Candidates (Prep Mode)** |
| --- | --- | --- |
| Evaluate applicants | Score + record real interviews | Simulate real interviews & give feedback |
| Ask job-specific Qs | Tailored to JD & resume | Practicing for a specific job |
| Output transcript/CSV | Used by hiring team | Used by candidate to reflect + improve |

## **Bonus: Feature Ideas for Interview Prep Version**

* “Mock Interview Mode” toggle
* Option to record multiple attempts per question
* Tips before or after each answer
* Graph of improvement over time

4.

https://www.notion.so/AI-Recruiter-Project-Tracker-1d60dd9443cf802da02acc9dafa24657?pvs=4

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