TASK 01 - Agent development.

Description

You are required to build a modular HR AI agent that achieves the given requirements.

Goal - Build an AI agent that autonomously screens job applicants from a pool of resumes, ranks candidates, schedules interviews.

Capabilities

Frontend Interface -

- **Job Description Input** - Input area where HR can post a job description.
- **Resumes -** Can be a set of resumes manually uploaded.
- **Candidate Review Panel** - Displays filtered and ranked candidates with: Performance scores, Candidate summaries highlighting relevant skills and experience, from the set of available resumes.
- **Filtering functionality** - Ability for the HR to select the required candidates.
- **Trigger Button** - After HR finalizes selections, a button to initiate the next step (interview scheduling).

Backend autonomous agent workflow -

- **Resume processing** - Parse resumes and extract relevant info apt to the JD, match against job description and rank candidates, generate candidate-specific summaries with performance criteria.
- **Candidate Selection Handling** - Once HR clicks "Select candidates," agent automatically picks the top candidates according to the JD provided by the HR (JD must be dynamically fetched and input into the agent).
- **Interview Scheduling** (Integrate with Google Calendar) - Schedule interview slots and automates mail to the candidate.

Technical Requirements

- **Language** - Python preferred for backend agent development, frontend is optional.
- **AI/LLM Integration** - Use any open or commercial LLM API (OpenAI, Anthropic, etc.) or agentic framework (LangChain, CrewAI, etc).
- **Scheduling integrations** - Google Calendar.
- **Modularity & Extensibility** - Clean modular code structure to separate UI, backend logic, and agent workflows.
- **Documentation** - README explaining:
  - How to the system was setup in depth.
  - Agent architecture and flow.

TASK 02 - Knowledge know how.

Description

Submit a PDF which is well documented with the following details:-

- Development environment and coding software.
- Tech stack in web frameworks.
- AI and ML frameworks.
- Agentic AI frameworks.
- LLM platforms.
- AI tools.
- Cloud services.
- Databases.

The goal here is to know the entire tech stack that you use in a regular basis, so please list out only the tools that you are well verse in.

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TASK 03 - Personal know how.

Description

Submit your **resume** and also **a video** of maximum **5 mins**, explaining how you solved task 01, what was your thought process in breaking down the problem statement and how you reached at an output. Please communicate in English and be in a well lit area with decent sound quality.

Things to be submitted

Task 01

- A video showcasing the entire workflow while it is being run from start to finish.
- Images of outputs that was generated.
- Your public github repo of this entire codebase.

Task 02 & 03

- Attach a PDF with the mentioned details.
- Attach the video as requested. (Make sure it is compressed to reduce video size)

Submission Details

- Add all of your work into a single Google Drive folder and provide the Drive URL (**make sure you have given access to the mail mentioned below**)
- Make sure you attach your CV in the mail and apply for the post to this mail :- **ilmoraai25@gmail.com**
- **NOTE - You can send in your works even if it is not 100% completed.**

Deadline - **23/08/2025.**