

The Challenge

Build a full-stack system that parses resumes, extracts candidate information, and uses an AI agent to autonomously collect PAN and Aadhaar documents.

Context: An HR team uploads a candidate's resume. Your system extracts their details, then an AI agent intelligently requests identity documents via their email or phone.

What to Build

Backend

- `POST /candidates/upload` - Accept resume (PDF/DOCX)
- `GET /candidates` - List all candidates
- `GET /candidates/<id>` - Show parsed profile with extracted data (name, email, phone, company, designation, skills)
- `POST /candidates/<id>/request-documents` - AI agent generates and logs a personalized request for PAN/Aadhaar
- `POST /candidates/<id>/submit-documents` - Accept uploaded PAN/Aadhaar images

Frontend

- Drag-and-drop resume upload with progress
 - Candidate dashboard (table: name, email, company, extraction status)
 - Candidate profile view showing extracted data + confidence scores
 - Button to trigger document request
 - Section to view/upload submitted documents
-

Stack

- Python (Flask/Django), React, OpenAI API (GPT-4) or Claude or OpenRouter (whatever is free and available to you)
 - LangChain or similar for agent orchestration
 - SQLite/PostgreSQL, deploy to Render/Railway/Vercel
-

Deliverables

- Public GitHub repo
- Up to 5-min Loom: Show architecture → upload resume → see extracted data → trigger document request