Job Dekho

Feature 1: The Resume Formatter & Job Recommendation Engine

🎯 Feature Overview

The Resume Formatter & Job Recommendation Engine is the cornerstone feature that transforms raw resume uploads into standardised formats while providing intelligent job matching and real-time application tracking. This feature positions Job Dhundo AI as a comprehensive career management platform.

Baseline Tech Stack

1. Frontend: React 19.1.1
2. AI: Ollama + qwen2.5:1.5b
3. Backend: Node.js + Express.js
4. Database: MongoDB + Redis
5. Authentication: JWT
6. File Upload: Multer

Phase 1: Resume Upload & Parsing

Files Supported: Pdf, Images(JPG,PNG, etc)

Step1: Upload a file

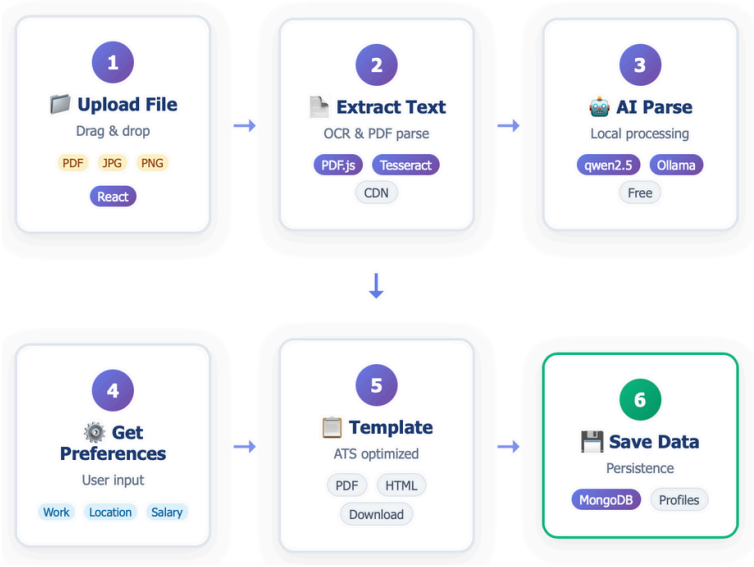
Step2: Extract text from the resume → PDF.js 3.11.174, Tesseract.js 4.1.1 OCR from cloudfare

Step3: Send the data to AI (qwen2.5:1.5b → hosted locally using Ollama to make it completely free of cost)

Step4: Get data from user → work preference, location preference, hometown, current salary, linkedin, GitHub, other links

Step4: Get the standardised template for the users to download

Step5: Send data to Mongo DB



Proposed structure for JSON file:

```
{
 "personalInfo": {
  "name": "string",
  "email": "string",
  "phone": "string",
  "location": "string"
 },
 "experience": [
  {
   "position": "string",
   "company": "string",
   "duration": "string",
   "description": ["array of achievements"]
  }
 ],
 "education": [
  {
```

"degree": "string",

"institution": "string",

"year": "string",

"description": ["array of details"]

}

],

"projects": [...],

"achievements": [...],

"certificates": [...],

"skills": ["array of skills"],

"additionalInformation": ["array of extras"]

"location": "string",

"current salary": "string",

"work place preference": "string",

"hometown": "string"

"linkedin": "link"

"hometown": "link"

links": [..]

}

Phase 2: Recommended Jobs

Step 1: Extract Candidate Profile

- Pull structured resume data from MongoDB
- Analyze skills, experience level, location preferences
- Calculate salary expectations and work mode preferences
- Generate candidate compatibility score

Step 2: Job Extraction from MongoDB

Step 3: Intelligent Job Matching

Matching Algorithm Weights:

- Skills Match: 35% (Primary factor)
- Salary Range: 20% (Financial compatibility)
- Location: 15% (Geographic preference)
- Experience Level: 15% (Seniority alignment)
- Company Fit: 10% (Size, culture, industry)
- Industry Match: 5% (Domain expertise)

Recommendation Categories:

- Perfect Matches (90%+): Immediate applications
- Strong Matches (75-89%): Highly recommended
- Growth Opportunities (60-74%): Skill development roles
- Dream Jobs (High salary/premium companies)
- Urgent (Application deadline < 3 days)

Step 4: Real-time Recommendations Refresh