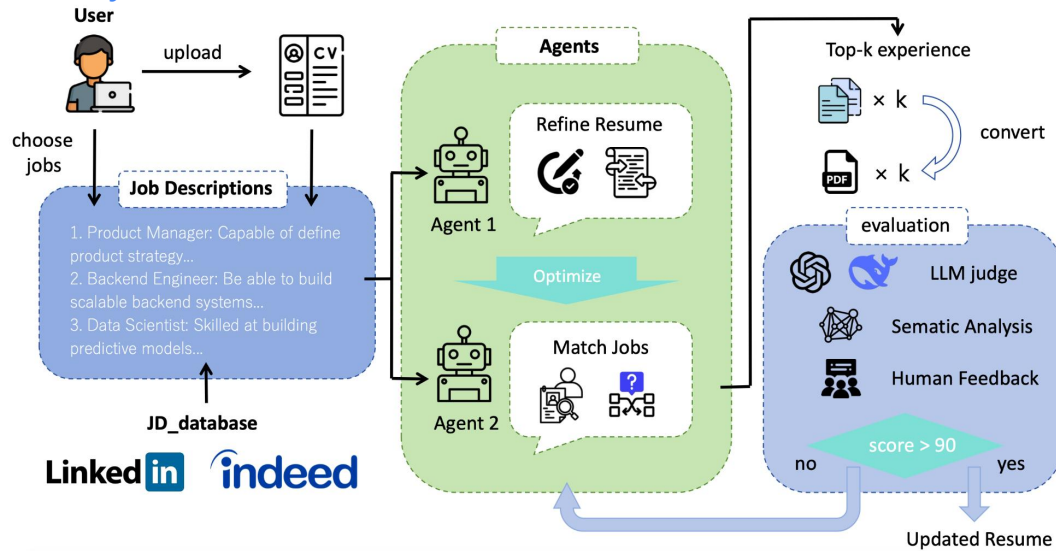




1. System Workflow Overview



2. Resume Fit Evaluation Based on Job Descriptions

- Resume and JD texts are embedded using a SentenceTransformer.
- Cosine similarity is used to calculate match scores.
- The top-matching jobs are returned with simple editing suggestions.

Why This Job is a Match

A large healthcare organization providing comprehensive medical services.



Skills



Experience Level



Education

59%

FAIR MATCH

✓ Actively Hiring

Assistant

📍 New York, NY Full-time \$25 – \$30/hr

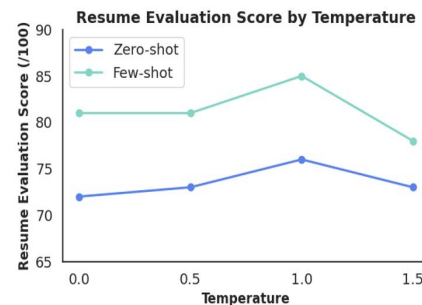
3. Prompt Engineering for Resume Optimization

- Combining Role Prompt, Few-shot, and Output Constraints Boosts Resume Editing
- Few-shot significantly beats Zero-shot
- Temp=1 performs best

You are a **professional resume editor**. Your task is to **modify the resume based on the following instructions**:\n<1. Only modify the description field under each entry to better align with the provided Job Description>\n\n...
Output format:\nReturn strictly **valid JSON without any explanation or extra text**.\n

Example 1:
Input (JSON):...
Job Description:...
Output (JSON):...
Example 2:
...

→ Role Prompt & Instructions
→ Output Format & Restrictions
→ Few-shot



4. Future Work and Deployment

Fine-tuned LLMs for Personalized Matching

Lightweight tuning to reflect user intent in embeddings.

Multi-turn Resume Feedback Agent

Build an agent that gives step-by-step resume suggestions for specific jobs.

Live Deployment and A/B Testing

Launch a demo and test match scores via real user engagement.

Multi-modal Extension

Incorporate portfolios, GitHub, and interviews for deeper evaluation.

