

Turtil Resume-Role Fit Evaluator

Goals

1. Offline Compatibility

- No reliance on GPT or external APIs
- Local deployment using Docker

2. Explainable Resume Evaluation

- Generate a fit score between a resume and a job description
- Show matched and missing skills
- Provide learning paths for improvement

3. Configurable System

- Skill aliases handled via config.json
- Fit score thresholds and learning step limits adjustable

4. Modular & Scalable

- Microservice architecture using FastAPI
- Easily extendable datasets (resumes, jobs, skills)

System Architecture Draft

User Input (resume_text, job_description)

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[Text Preprocessor]

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[Skill Extractor] <-----> skills.json + config.json

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[Fit Score Engine] <-----> Cosine similarity or sentence embeddings

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[Gap Analyzer]

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[Learning Path Generator] <-----> learning_paths.json

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Structured JSON Output:

- fit_score
- matched_skills
- missing_skills
- recommended_learning_track