

Module 4 – Resume Matcher

Overview

The Resume Matcher module is the AI brain of the platform. It ensures smart matching of job seekers to job postings using natural language processing, machine learning, and ranking algorithms.

Sub■Modules

1. Resume Parser – Extracts essential information such as skills, projects, education, and experience.
2. JD Parser – Extracts key requirements from job descriptions.
3. Matching Engine – Matches resume data with JD data.
4. Scoring System – Generates relevance scores.
5. Feedback Learning – Adjusts model performance using recruiter feedback.

Matching Algorithm (High-Level)

- Tokenization → Stop-word removal → Keyword extraction.
- Semantic similarity calculation using word embeddings.
- Weighted scoring for skill match, experience, education relevance.
- Final ranking using ensemble scoring.

Workflow

1. Job description uploaded → Parsed by AI.
2. Resume uploaded → Parsed.
3. Matching engine compares extracted vectors.
4. Generates match score → Displays ranked candidates.

