

AI-Powered Skill Mentor

“ Use Case “

1. Introduction:-

The AI-Powered Skill Mentor is a smart system designed to analyze users' skills using artificial intelligence and provide recommendations to enhance their employability. It helps job seekers identify skill gaps, assists recruiters in finding suitable candidates, and allows administrators to monitor fairness and efficiency within the system.

2. Actors in the System:-

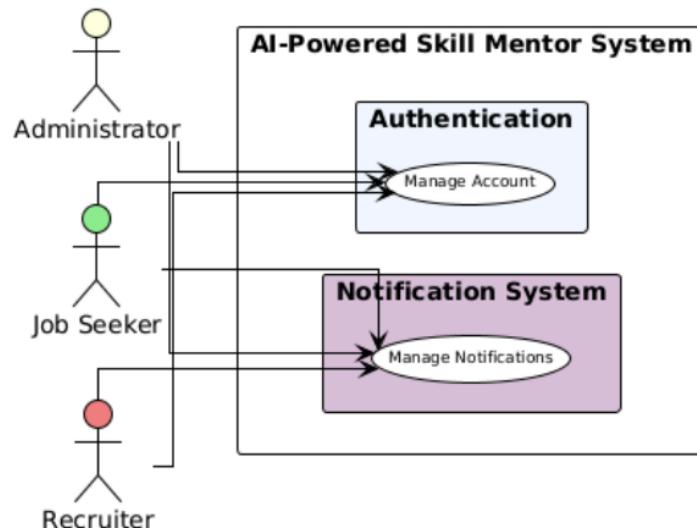
- **Job Seeker** – Uploads resumes, receives skill analysis, and gets learning recommendations.
- **Recruiter** – Posts job listings, views suitable candidates, and manages job data.
- **Administrator** – Manages users and supervises system performance.
- **Learning Platforms** – Provide course and training data.
- **Job Market Data** – Supply current labor market trends.

3. System Packages:-

A. Authentication Package:-

Manages user registration, login, profile management, and password recovery.

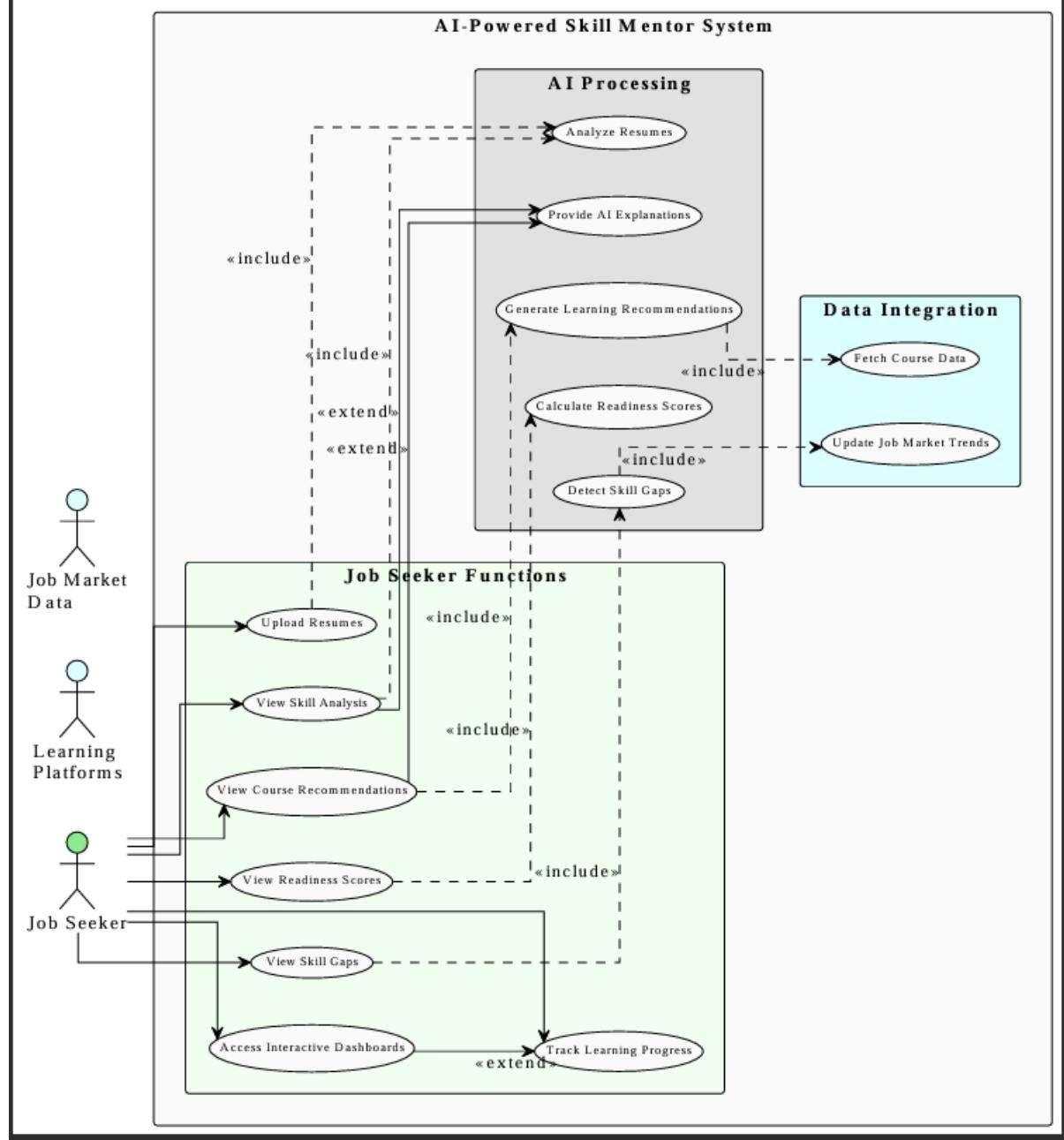
Authentication - AI-Powered Skill Mentor (Simplified)



B. Job Seeker Functions:-

Upload resumes, view skill analysis and readiness scores, detect gaps, get course recommendations, track progress, and access dashboards.

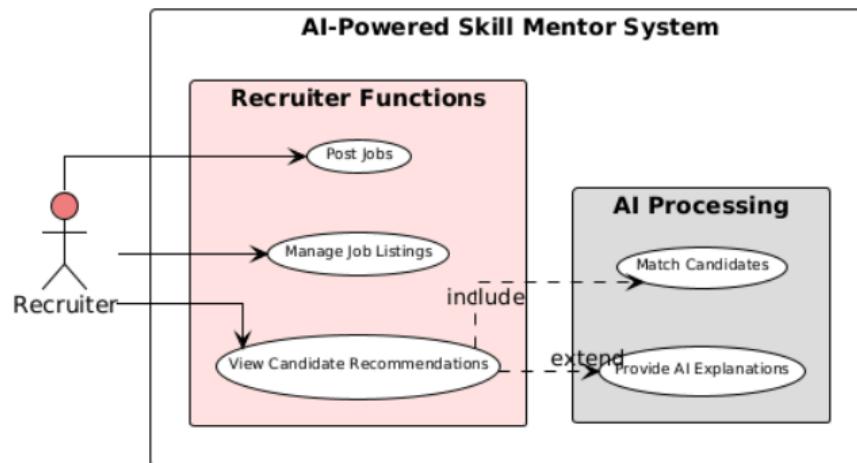
Job Seeker Functions - AI-Powered Skill Mentor



C.Recruiter Functions:-

Post and manage job listings, view and rank candidate recommendations, and contact candidates.

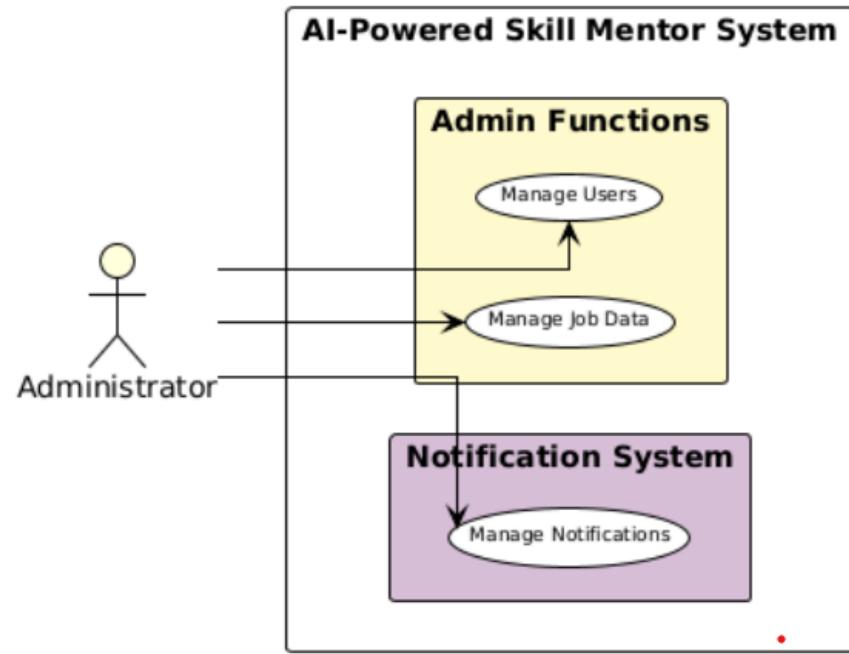
Recruiter Functions - AI-Powered Skill Mentor (Updated)



D.Admin Functions:-

Manage users and job data, maintain AI models, audit system performance, and monitor ethical AI compliance.

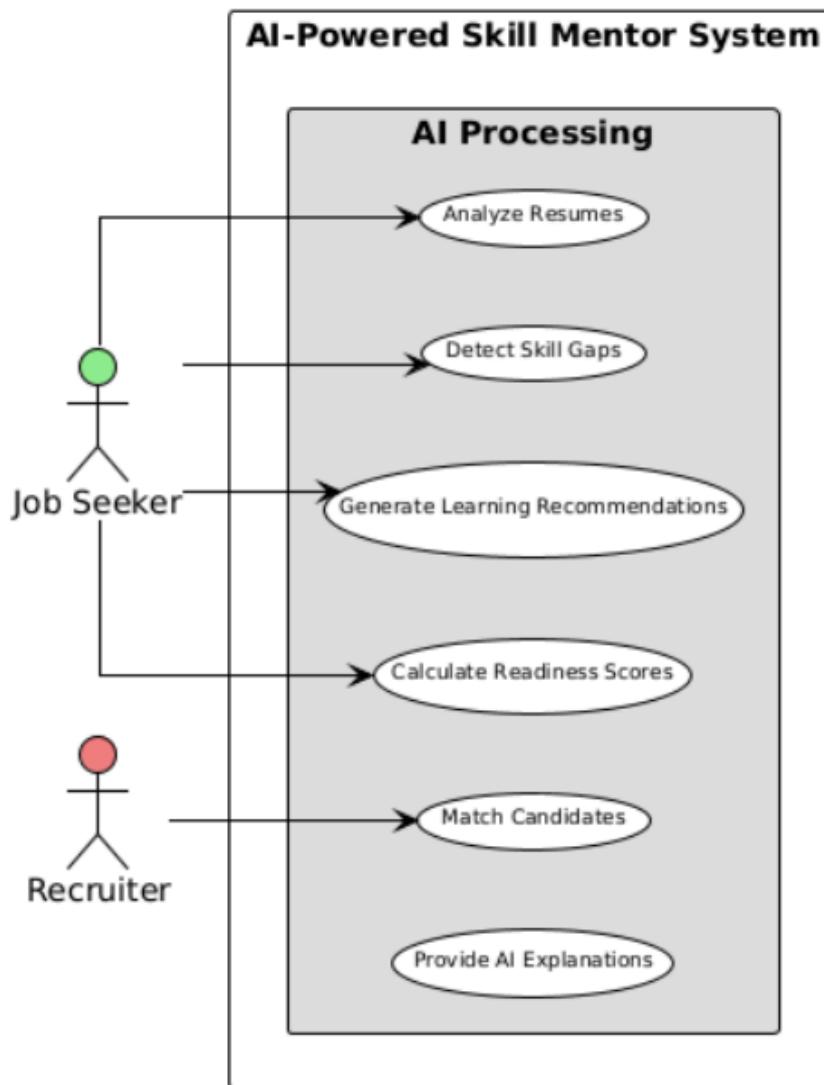
Admin Functions - AI-Powered Skill Mentor



E.AI Processing:-

Core engine: resume analysis (NLP), gap detection, learning recommendations, readiness scoring, candidate matching, and AI explanations.

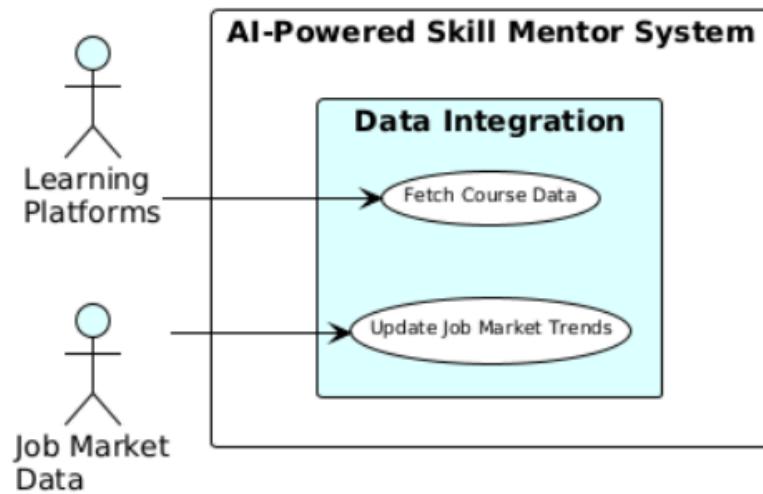
AI Processing - AI-Powered Skill Mentor



E.Data Integration:-

Fetches course data and updates job market trends from external sources.

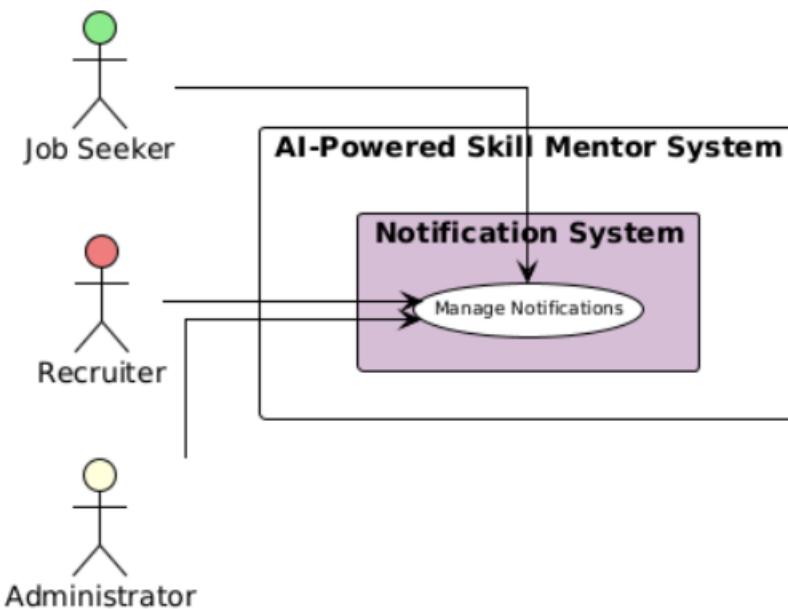
Data Integration - AI-Powered Skill Mentor



F.Notification System:-

Manages notifications and alerts for all actors.

Notification System - AI-Powered Skill Mentor



4.Relationships in the Diagram:-

- **Association** – Direct interaction between actors and use cases (actor → use case).

- **Include** – A use case always triggers another (mandatory dependency). Example: *Upload Resumes* → *Analyze Resumes*.

- **Extend** – Optional or conditional behavior; example: *Access Interactive Dashboards* may extend *Track Learning Progress*.

5. System Workflow Summary:-

1. The user logs into the system .
2. Job Seeker uploads a resume.
3. AI Processing (Resume NLP) extracts skills and detects gaps using Job Market Data.
4. The system calculates Readiness Scores and recommends courses from Learning Platforms.
5. Job Seeker tracks learning progress and views dashboards.
6. Recruiters post jobs and view matched candidates.
7. Administrators audit the system, maintain AI models, and ensure ethical compliance.
8. Notifications inform users about updates.

7. Conclusion:-

The AI-Powered Skill Mentor is a comprehensive AI system for career development and recruitment optimization. It helps job seekers improve their skills, supports recruiters in selecting the best candidates, and ensures ethical supervision through AI transparency. Its integration with external learning and job market data ensures up-to-date, reliable recommendations