Pathfinder

Resume Matcher & Skill Recommender

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What This App Does

- Analyses resume vs job description
- Extracts skills using keyword matching
- Calculates match percentage
- Identifies missing skills
- Suggests Coursera & Udemy courses
- Generates a PDF report
- Saves and displays user history
- Includes login & registration system

Authentication System

Login & Registration via Streamlit UI

Credentials stored in users.json

Each user has profile image, history, and data stored

Logout & Clear History options in sidebar

Skill Extraction Logic

Predefined list of skill keywords

Extracts text from PDF or DOCX

Searches for keyword patterns using regex

Produces Resume Skills & Job Skills

Matching Mechanism

Intersects Resume & Job skills

Identifies matched and missing skills

Calculates match % = matched / job skills

Displays bar graphs & pie charts using Plotly

Course Recommendations

Dataset lookup from Coursera & Udemy CSV files

Finds first matching course for each missing skill

Generates links for user convenience

PDF Report Generation

- Uses ReportLab
- Includes match %, skills, missing skills
- Lists recommended courses with URLs
- Automatically downloadable

User History Tracking

Saves each session's match result

Shows past timestamps & matches in sidebar

Stores file name of generated PDF

Can clear entire history

Overall Workflow

- 1. User logs in
- 2. Uploads resume + pastes job description
- 3. System extracts skills
- 4. Calculates match statistics
- 5. Suggests courses
- 6. Generates PDF report
- 7. Saves result to history