

# **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

