Resume Analysis Tool

THE PROBLEM WE ARE SOLVING

AUTOMATION

Extracts and analyzes
text from resumes
quickly and efficiently.

CONSISTENCY

Identifies and processes
skills, education, and
industry keywords
systematically.

INSIGHTFUL MATCHING

Highlights candidate
strengths, detect gaps,
and aligns profiles to
job/industry needs.

Overview of the System Functionality

Text Extraction from PDFs

01

Preprocessing to standardize text

02

Keyword Matching and Counting for Skills

03

04

Education Level Detection

05

Industry Matching for Candidate Profiling.

STEP:1

Extracting Text from Resumes

- load resumes from a directory
- use PyPDF2 to read and extract text
- Convert all text to lowercase for uniformity.

STEP:2

sAmPle TexT

↓

sample text

Preprocessing Text

- Actions:
  - Remove newlines and double spaces.
  - Normalize text to lowercase.

- Purpose:
  - Ensures consistent format across various resume structures, allowing for more accurate keyword matching.

How Text analysis works

KEYWORD EXTRACTION AND COUNTING

Keywords in Resume

Applicant 1 Applicant 2

Java
Python
ML
Data Science

0   1   2   3
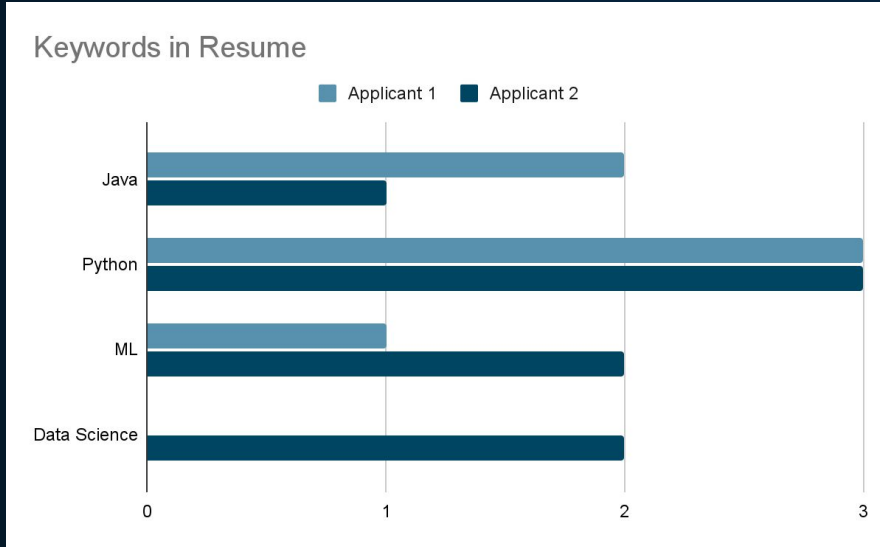
KEYWORD MATCHING

APPLICATION

STEP 4 : EDUCATION LEVEL DETECTION

Education

Bachelor's

Master's Degree Required or higher 💡

Education

Master's

Bachelor's or higher Degree Required ✅

GOAL

Identify the highest level of education attained by the candidate

PROCESS

Define REGEX Patterns

Scan the text for each pattern in hierarchical order

OUTPUT

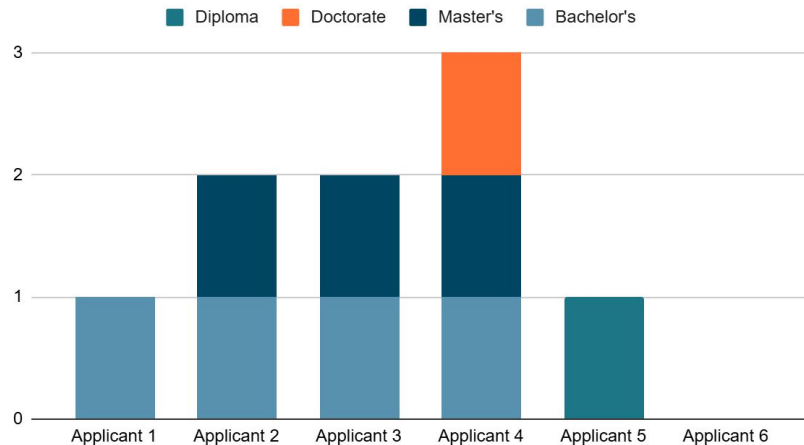Return the education level or indicates if the minimum requirement is unmet

Bachelor's, Master's, Doctorate and Diploma

■ Diploma ■ Doctorate ■ Master's ■ Bachelor's

localhost:8000/job/b707da3c-50b4-4d7b-9e69-5a257c466e3c/candidate/ff1cd7aa-bcbd-4b4d-8800-f565ca1534a6/

vh

Organizations   Users   Branches   **Jobs | Candidates**

Jayshil Patel
VirtuHire Admin   JP

🏠 › Title2611 › Candidates › **Candidate lastname** › 👁

← ✏ **More Actions** ⌄

Viewing Details: *Candidate lastname*   👤

First Name
Candidate

Last Name
lastname

E-mail
jayshiljatin@gmail.com

Resume
None

Phone Number
None

Gender
Male

Are you a member of a visible minority?
Yes

Interview Details   📋

Preferred Language
English (Canada)

Additional Interview Time
0 min   :   0 s

Notes
None

Documents & Files   📄

None
There are currently no documents assigned to this candidate.

Audit Information   ℹ

Created By
Jayshil Patel

Created On
November 27, 2024, 3:06 a.m.

Last Updated By
Jayshil Patel

Last Updated On
November 27, 2024, 3:10 a.m.

Required Skills

The candidate's profile possesses 3 out of the 4 key skills required for selection.

Python   3   Java   2   Machine Learning   1   Data Science   0

Education

Master's

Bachelor's or higher Degree Required ✅

CLOUDSHIFT

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22:53
26-11-2024

STEP 5 : INDUSTRY MATCHING

vn

Your Organization   Users   Your Store   **Jobs | Candidates**

JP **Jayshil Patel**
Ontario Branch

Home > Jobs > Test job title > **Candidates**

🔍   Add Candidate ⌄   Invite Candidates ⌄   ⬇ Export Data

Candidate Name	Email	Interview Status ⓘ	Focused role ⓘ	Selection Status
Jayshil Patel	jayshiljatinpatel@gmail.com	💬 COMPLETED	Software Development	⌄
second candidate	xagob39813@mcatag.com	💬 COMPLETED	Data Science and Analytics	⌄
Temp mail	sasiyab569@lucvu.com	💬 COMPLETED	Finance	⌄
Buddy Test	buddy.combden+user-testing@cloudshift.net	💬 COMPLETED	Marketing and Advertising	⌄
imane Elamile	ela.imane@gmail.com	🔄 INVITED	Software Development	⌄
Kim Last	shahzaib@pikessoft.com	✉ UNINVITED	Software Development	⌄
Kim jon	shahrukh.khan@pikessoft.com	✉ UNINVITED	Software Development	⌄

Showing 1 - 7 of **7**   10 Entries per Page ⌄

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Process of Integration

Initial Setup

Frontend
Development

Backend
Development

Testing and
Optimization

DEPLOYMENT
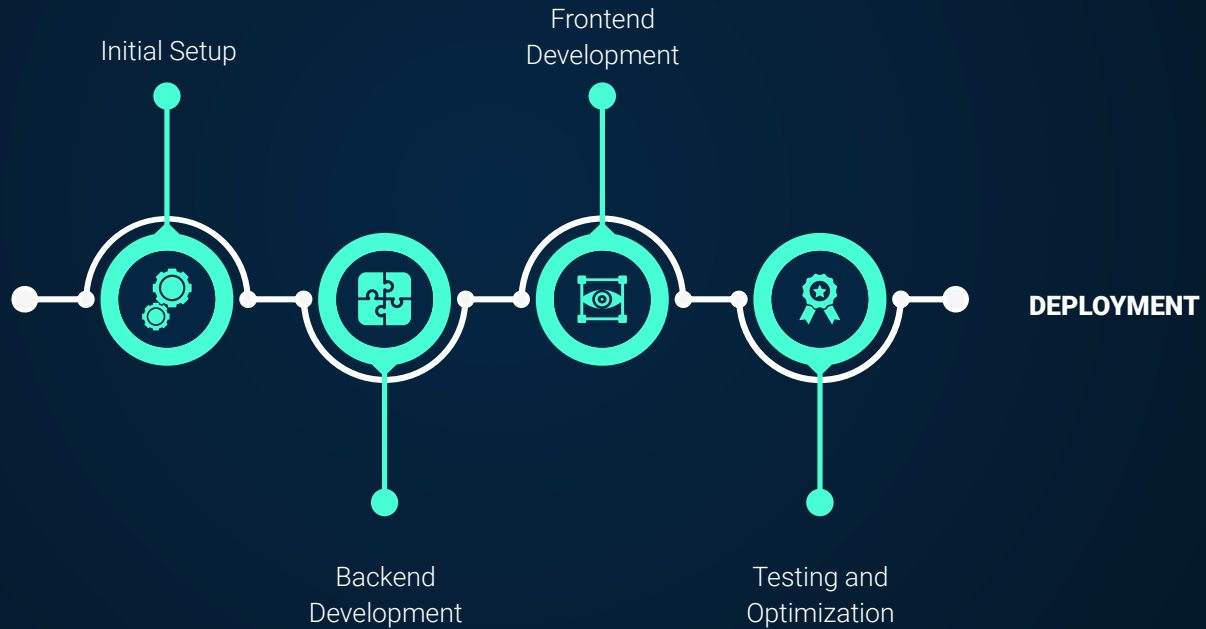
Benefits and Value Proposition

SCALABILITY
Can process multiple resumes at once, allowing companies to handle large applicant volumes.

ACCURACY
Standardized keyword matching ensures relevant skills are highlighted.
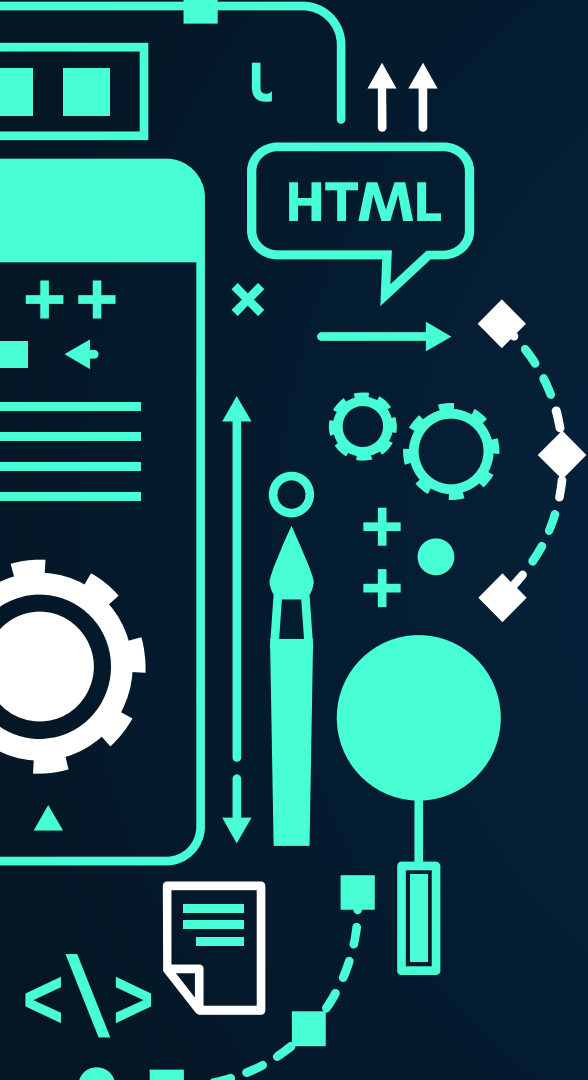
EFFICIENCY
Reduces manual resume screening time, particularly for large-scale hiring.

POTENTIAL IMPROVEMENTS AND FUTURE SCOPE

AI generated Summary / Score

FEATURES → TIERS

THANKS!

Does anyone have any question?