



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



04

Education Level Detection

Preprocessing to
standardize text

02



05

Industry Matching for
Candidate Profiling.

Keyword Matching and
Counting for Skills

03





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

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Data Scientist

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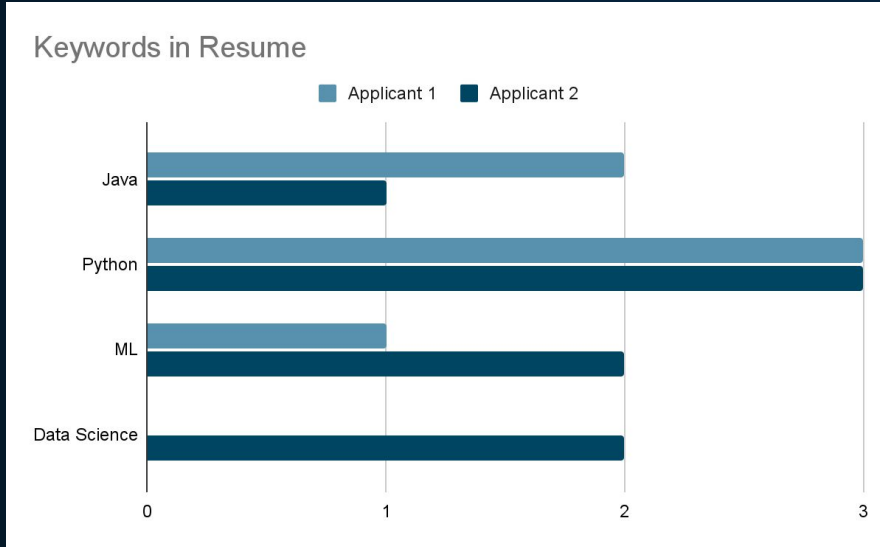
Professional Profile

Passionate about data analysis and experiments, mainly focused on user behavior, experience, and engagement, with a solid background in data science and statistics, and extensive experience using data insights to drive business growth.

Education

2016	University of California, Berkeley <i>Relevant courses:</i> <ul style="list-style-type: none">Machine LearningMachine Learning at ScaleStoring and Retrieving Data	Master of Information and Data Science <ul style="list-style-type: none">Field ExperimentsApplied Regression and Time Series AnalysisExploring and Analyzing Data	<ul style="list-style-type: none">Data Visualization and CommunicationResearch Design and Applications for Data Analysis	GPA: 3.93
2014	Universidad Politécnica de Madrid <i>Relevant courses:</i> <ul style="list-style-type: none">Data MiningMultivariate AnalysisTime Series	M.S. in Statistical and Computational Information Processing <ul style="list-style-type: none">Neural Networks and Statistical LearningRegression and Prediction MethodsOptimization Techniques	<ul style="list-style-type: none">Monte Carlo TechniquesNumerical Methods in FinanceStochastic Models in FinanceBayesian Networks	GPA: 3.69
2005	Universidad Politécnica de Madrid <i>Focus Area:</i> Radio communication systems (radar and mobile). <i>Fellowship:</i> First year at University, due to Honors obtained last year at high school.	M.S. in Telecommunication Engineering		GPA: 3.03

KEYWORD EXTRACTION AND COUNTING



KEYWORD MATCHING



APPLICATION

STEP 4 : EDUCATION LEVEL DETECTION



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

Education

Bachelor's

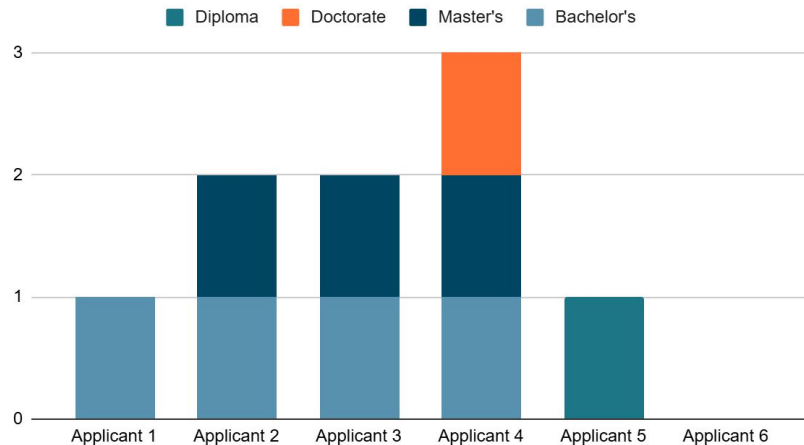
Master's Degree Required or higher 

Education

Master's

Bachelor's or higher Degree Required 

Bachelor's, Master's, Doctorate and Diploma



View Candidate - VirtuHire

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

Organizations

Users

Branches

Jobs | Candidates

Jayshil Patel

VirtuHire Admin

JP

Home > Title2611 > Candidates > Candidate lastname > Info

BackEditMore 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

Documents & Files

None

There are currently no documents assigned to this candidate.

Required Skills

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

Python3

Java2

Machine Learning1

Data Science0

Education

Master's

Bachelor's or higher Degree Required

Interview Details

Preferred Language

English (Canada)

Additional Interview Time

0 min : 0 s

Notes

None

Audit Information

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CLOUDSHIFT

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Windows Taskbar

View Candidate - VirtuResume analysis tool prChat | Team | IIRD Interr

22:5326-11-2024

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	<div><div></div> COMPLETED</div>	Software Development	
second candidate	xagob39813@mcntag.com	<div><div></div> COMPLETED</div>	Data Science and Analytics	
Temp mail	sasiyab569@lucvu.com	<div><div></div> COMPLETED</div>	Finance	
Buddy Test	buddy.combden+user-testing@cloudshift.net	<div><div></div> COMPLETED</div>	Marketing and Advertising	
imane Elamile	ela.imane@gmail.com	<div><div></div> INVITED</div>	Software Development	
Kim Last	shahzaib@pikessoft.com	<div><div></div> UNINVITED</div>	Software Development	
Kim jon	shahrukh.khan@pikessoft.com	<div><div></div> UNINVITED</div>	Software Development	

Showing 1 - 7 of 7

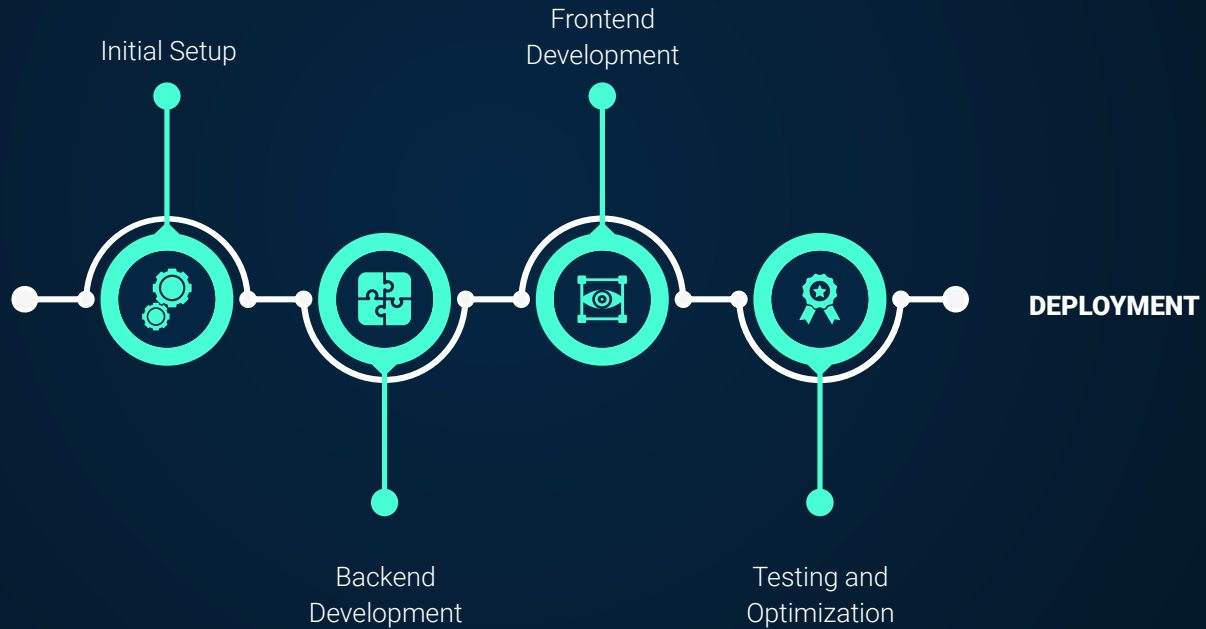
10 Entries per Page

Prev

Page 1

Next

Process of Integration



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

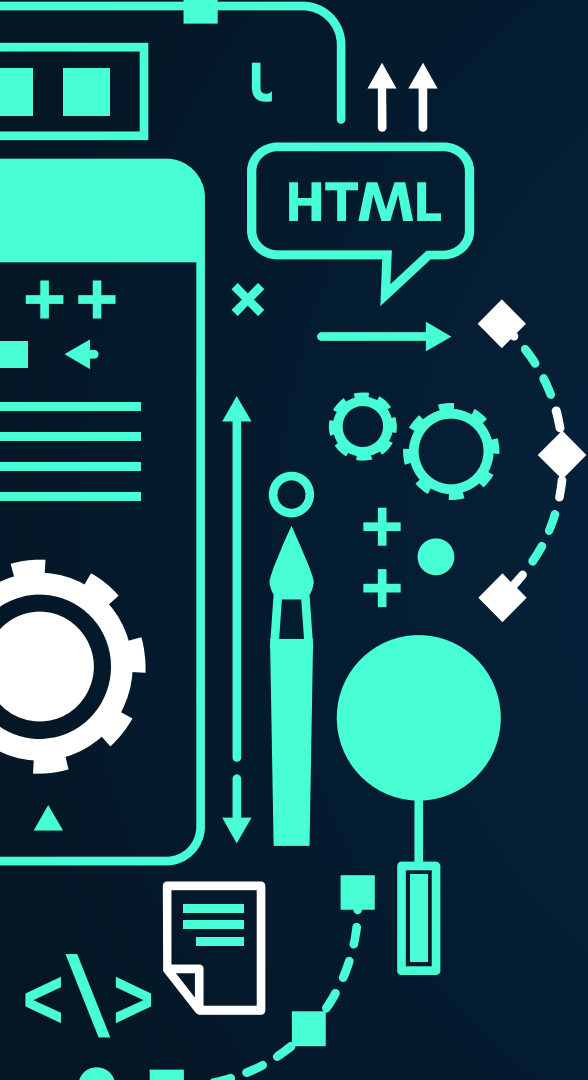
Reduces manual resume screening time, particularly for large-scale hiring.



POTENTIAL IMPROVEMENTS AND FUTURE SCOPE

AI generated Summary /
Score

FEATURES → TIERS



THANKS!

Does anyone have any question?