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**BACHELOR OF TECHNOLOGY IN**

**COMPUTER SCIENCE ENGINEERING**



**Synopsis on**

Resume- Parser

Submitted To

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# INTRODUCTION

A Resume Parser is a valuable tool for HR professionals and organizations looking to streamline their recruitment process. It automates the extraction of key information from resumes, making it easier to manage and analyze candidate data. These are helpful in shortlisting candidates based on certain criteria without the hectic task of going through each Resume manually and evaluating it. In this post, we will guide you in creating a Resume Parser from scratch and extracting key information from a typical candidate Resume using Python Programming.

A resume parser extracts, analyzes, and organizes data from resumes to identify suitable candidates. This tool streamlines the recruitment process, minimizes errors, and saves time, thus enhancing recruiters' efficiency.

A resume parser is a deep learning/AI framework that identifies complete information from resumes, extracts, analyzes, organizes, and enriches it using its taxonomies. Resume parsing software accelerates the hiring process and improves overall productivity.

# OBJECTIVE

## Saves Time and Efforts:

Parsing resumes manually is time-consuming. The resume parser automatically parses resumes and extracts candidate data in 200+ fields. By extracting details from resumes accurately it significantly reduces the time and effort required to screen candidates.

## Increases Efficiency:

A resume parser analyses a large volume of resumes and allows recruiters to focus on evaluating qualified candidates rather than sorting through piles of paperwork.

## Improves candidate experience

It offers auto-filling of forms in less than 10 seconds so that candidates can apply for a job post in a single click without manually filling out details.

## Improves Accuracy:

Resume parsing software helps avoid human errors such as misspellings, typo errors, and incorrect or incomplete data that can compromise the quality of the candidate database.

## Eliminates Biases:

A resume parsing software can remove the data that users feel can cause bias in their recruiting decision. They can identify the data fields and enable/ disable fields as per their requirement. Once they disable the fields, the parser will not fetch data for the same.

## Easily Imports Millions of Resumes:

It allows RChilli’s resume/JD parser to parse multiple resumes/JDs in a go. All you need to do is upload multiple resumes/JDs to the given FTP, and you will get the extracted information in seconds.

## Enhances Employer Branding:

A resume parser helps to build your employer's brand among candidates. It also attracts and retains new talent.

## Facilitates Better Hiring Decisions:

A resume parser gives structured data of resumes which makes it easier to shortlist candidates. As a result, you get relevant candidates in your talent pool resulting in better decision making.

## Fetch Resumes from Emails:

You can parse resumes or jobs from single or multiple email inboxes. Within less than two seconds, you can get resume/job data in your database.

**PROJECT CATEGORY**

This project is titled “Resume Parser” . Resume Parser software is implement under the “Python” language. The Resume Parser is developed for reduce the human effort. Through the Resume Parser is a tool that automatically parses resumes and extracts candidate data in over 200 fields, saving time and effort. It increases efficiency by analyzing large volumes of resumes, improving the candidate experience by auto-filling forms in less than 10 seconds, improving accuracy by avoiding human errors, and eliminating biases. It can easily import millions of resumes and enhance employer branding by attracting and retaining new talent. It also facilitates better hiring decisions by providing structured data for shortlisting candidates. Additionally, it can fetch resumes or jobs from email inboxes within less than two seconds

# TOOLS/PLATFORM

This project is developed using the tools, which are used for development of the software. These tools are follows:

“Python” Language: - “Python” Language is a basic programming language and computing platform by James Gosling, Mike Sheridan, and Patrick Naughton in 1995. There are lots of websites in which make the Resume Parser have conduct but here we use “Python” language.

Along with MS Excel is also used for creating the csv file. Without MS excel the project could work but in order to make the project look tidy and along with tideness add more accessibilty option ,with an option to view whole data systematically MS Excel is used.

**HARDWARE & SOFTWARE REQUIREMENTS**

**HARDWRE**:-

DESCRIPTION CAPACITY

MODEL DELL

PROCESSOR INTEL DUAL CORE 2.3 GHZ

MEMORY (RAM) 2GB

HARD DISK 512GB

KEYBOARD 115 KEY

MOUSE OPTICAL

MONITOR CRT

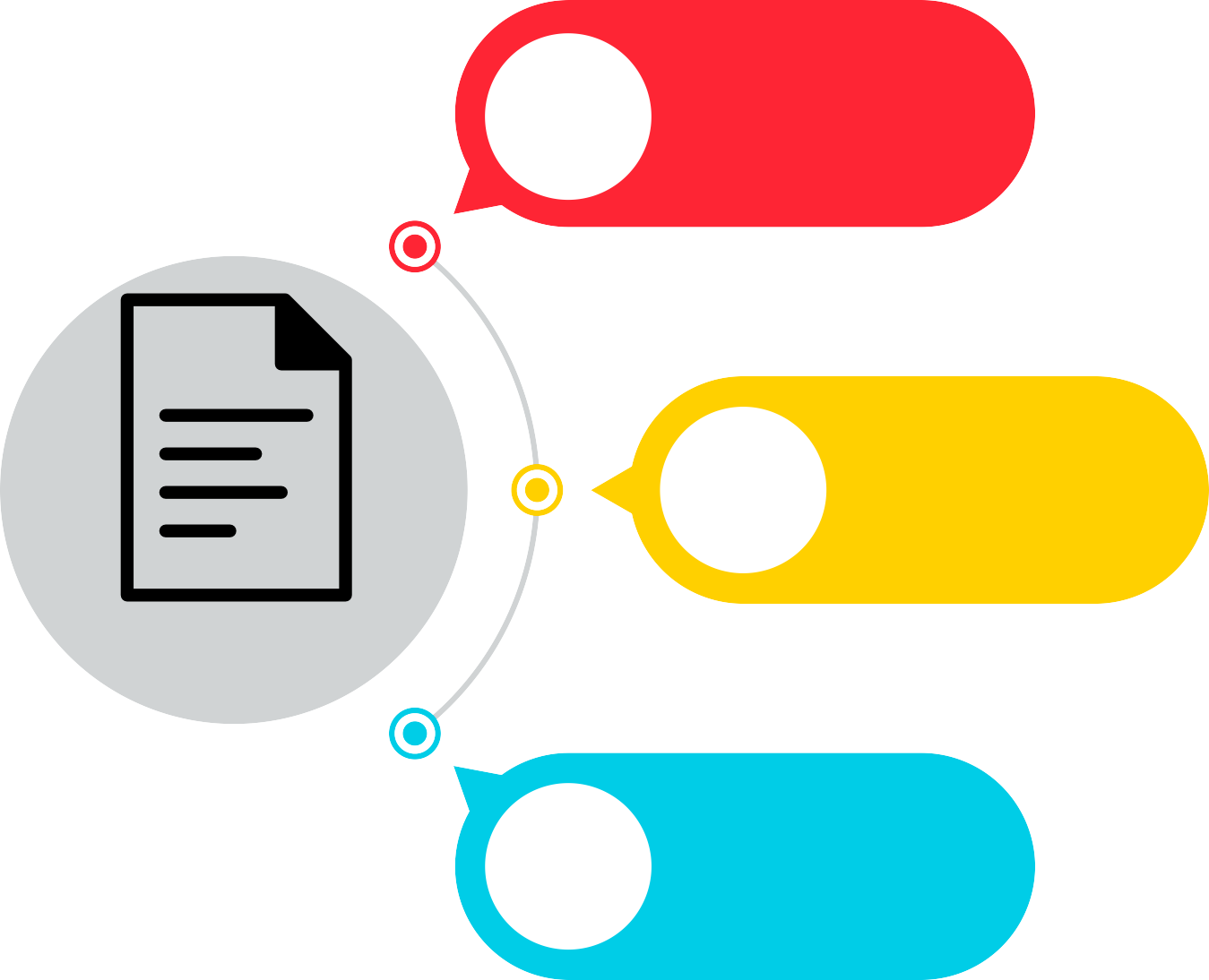
USB Flash usb port

**SOFTWARE:-**

The language which we shall be use to make this project is “Python” language. We had also used the Microsoft Exdcel for the Ease of HR.

We have used window 10 operating system.

**DATA FLOW DIAGRAM**



**1**

**Extracts resume data and converts it into structured form.**

**2**

**Segregates extracted information into fields like contact information, qualifications,.**

**Resume**

**3**

**Builds a CSV file and later on conveerting that file to excel file.**

# MODULES

## HR:-

A human resources department manages employee recruitment, training, and support, including reviewing resumes, tracking employee information, and ensuring compliance with labor laws. HR managers support management development, handling hiring, training, compensation, benefits, performance management, organizational design, succession planning, and retention. They are responsible for strategic staffing planning, conducting interviews, and hiring personnel to create a productive work environment.

## Candidate:-

In this software there isd no much role of candidate as this software mainly focuses on HR and in order to make the recruitment process easy,of job candidate. an applicant who is being considered for a job. type of: applicant, applier. a person who requests or seeks something such as assistance or employment or admission.

# FUTURE SCOPE

Resume parsing software automates the process of assessing applicants' suitability for a role, saving recruiters time and ensuring a unbiased recruitment process. It helps identify suitable candidates through intelligent analysis of online resumes, extracting company- identified keywords and skills. This streamlines the candidate review process, saving recruiters hours and improving the candidate's experience. However, some candidates may be unaware of resume parsing software, leading to applications being omitted or declined. Understanding the pros and cons of resume parsing is crucial for selecting the right tool.

# REFRENCES

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Learning Python Jonathan Knudsen &Patrick Niemeyer

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