 **EASWARI ENGINEERING COLLEGE**

**(An Autonomous Institution)**

**Bharathi Salai, Ramapuram, Chennai-89**

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

ACADEMIC YEAR: 2022-2023 EVEN SEMESTER

INTERNSHIP REPORT

**(REGULATION - 2019)**



**Intern**

**Trittern software Pvt Ltd**

FOURTH SEMSTER

B. Tech - Artificial Intelligence And Data Science

**Prepared By**

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**PREFACE**

This document contains about the internship I did from January 2, 2023 -January 23, 2023 at Trittern software technologies in the AI and Machine learning sector .This document contains what I had gone through this intern period. It contains basic information about the company and what I did in the company in the overall internship period

This documents index contains about the company services, the knowledge and experience I gained through this internship and what are the tools I used during my project.

I worked on Resume parser. It basically helps in identifying the fake resumes.

**ACKNOWLEDGEMENT**

I worked as an intern and completed a project under the guidance of Mr. Deepak Ram, the HR of Trittern Pvt and Limited. I am grateful to Mr. Deepak Ram for lending me this wonderful opportunity to work in tritern. I learnt a lot while doing this internship. This internship has not only helped me to develop professionally but also personally. I have had the opportunity to learn more about myself and my strengths and weaknesses, and I have grown in confidence as a result.

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**Introduction:**

Tritern is an AI based company which is doing good development and discoveries in many fields like Machine Learning, Digital Marketing, Enterprise Software, Branding and content creation, Website development and Mobile App development.With the use of ever growing powerful hardware capabilities , They have advanced image and text recognition algorithms which are automatically tweaking itself every second with a custom training model.The highlight is that it was made in such a way such that it can modify and integrate with any existing applications.

**Internship details:**

* **About me during my work:**
  + Role I did: Junior software developer.
  + Duration: 15 days(excluding the holidays).
  + Agenda of my work as a junior software developer: creating a resume parser.
  + Size of the company:150-200
  + Type: private company
  + Location: 1/161, 5 th cross street Ganga nagar, Chennai-600095

**About the project(Resume parser):**

Being placed as a junior software developer doing an internship I worked with the team of 3 members. We jointly created a resume parser. Nowadays many companies are getting fake or redundant resumes from job seekers. These fake resumes mislead the employers into believing that a candidate has skills and qualifications that they do not actually possess. So many major tasks was to create a resume parser which parses the resume uploaded by the job seeker and validate it with the help of neural networks and obviously the front end developing. My major contribution done in this project is front end work.

**What is the need for resume parser?**

A resume parser is a software tool that extracts information from resumes and converts it into structured format that can be easily searched, sorted and analyzed. Resume parser is necessary in today’s world because of the high volume of jobs applications that companies receive for their job openings. With so many applicants, recruiters and hiring managers need a way to quickly and efficiently sift through resumes to identify the most qualified candidates. Resume parsing technology automates this process by analyzing and extracting relevant information from resumes, such as education, work experience, skills and contact details. This information can then be organized and entered into a database or applicant tracking system, making it easier fro recruiters to search and filter through resumes. It also helps to eliminate the manual effort required to screen resumes, which can be time consuming and error prone. By automating this process, recruiters and hiring managers can focus their time and attention on evaluating the most promising candidates and making better hiring decisions. Overall, resume parsing technology improves efficiency and effectiveness of the recruiting process, making it an essential tools in today’s competitive job market.

**Project objective:**

* The objective of the project is to develop a neural network model using the front end works it validates resumes accuracy by comparing the information provided in the resume with the information available on the candidate’s LinkedIn profile.
* The model will check for inconsistencies, such as missing information, contradictory information, or information that doesn’t match the candidate ‘s LinkedIn profile.

**Why Front end works are used?**

In software development, the front end refers to the user interface and user experience of a web or mobile application. front end work involves designing and developing the parts of the application that the user sees and interacts with, such as the layout, colours, fonts, buttons, forms, and animations.

Some common tasks in front end development includes:

1. creating wireframes and mock ups to visualize the layout and design of the application.
2. Writing HTML,CSS and Java script code to build the user interface and functionality.
3. Testing the application to ensure it is responsive and user-friendly across different devices and browsers.
4. Integrating front end components with back end systems, such as API’s and databases.
5. Optimizing the application for performance and accessibility.

Overall, front end work is critical in delivering a high quality user experience and ensuring that the application meets the need and expectations of its users.

**About HTML:**

HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content. HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

**About CSS**:

Cascading Style Sheets, fondly referred to as CSS, is a Simply designed language intended to simply the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each webpage. It describes how a webpage should look: It prescribes colors, fonts, spacing and much more. In short, you can make your website look however you want. CSS lets developers and designers define how it behaves, including how elements are positioned in the browser

**Process:**

Building a resume parser typically involves using natural language processing (NLP) techniques to extract relevant information from resumes and standardizing it into a structured format that can be easily processed and analyzed. Here are the general steps you can take to build a resume parser:

**Define the fields:**

Determine what fields you want to extract from the resumes, such as name, contact information, work experience, education, and skills.

**Collect training data**:

Gather a large dataset of resumes that are representative of the types of resumes you expect to process.

**Preprocess the data:**

Clean and standardize the resumes in your dataset to ensure consistency in formatting, layout, and language.

**Train the model:**

Use machine learning algorithms such as Support Vector Machines (SVMs) or neural networks to train your model on the preprocessed dataset.

**Test and refine the model:**

Evaluate the performance of your model on a separate test dataset and make adjustments to improve its accuracy and efficiency.

**Deploy the model:**

Integrate your resume parser into your application or system, and continue to monitor and improve its performance over time. To improve the accuracy of your resume parser, you can also consider using techniques such as entity recognition, named entity recognition (NER), and part-of-speech (POS) tagging to identify and extract specific information from resumes. Additionally, you can use pre-trained language models such as BERT or GPT-3 to enhance your parser’s ability to understand and process natural language.

**LinkedIn API:**

LinkedIn provides an API (Application Programming Interface) that allows developers to access and interact with LinkedIn’s data and functionality programmatically. The LinkedIn API enables developers to build applications that leverage LinkedIn’s features, such as retrieving profile information, searching for jobs, and posting updates. LinkedIn provides several APIs, including:

• REST API: This API allows developers to retrieve and interact with LinkedIn’s data using RESTful web service calls.

• JavaScript API: This API enables developers to add LinkedIn features to their web pages, such as sign-in, share, and member profile plugins.

• Partner Programs API: This API is designed for LinkedIn’s partners and enables them to retrieve data from LinkedIn and integrate it into their own applications.

• Access to LinkedIn’s data: The LinkedIn API provides developers with access to LinkedIn’s data, including user profiles, job listings, company information, and more. This data can be used to build applications that leverage LinkedIn’s network and functionality.

• Integration with other applications: The LinkedIn API enables developers to integrate LinkedIn features into their own applications, allowing users to sign in with LinkedIn, share content, and more.

• Customization: Developers can customize their applications using the LinkedIn API to fit their specific needs and requirements.

**Neural Network:**

A neural network is a type of machine learning algorithm that is inspired by the structure and function of the human brain. It is composed of interconnected nodes, called neurons, that work together to perform a specific task. A neural network typically consists of an input layer, one or more hidden layers, and an output layer. Each layer is composed of multiple neurons that are connected to the neurons in the adjacent layers. The input layer receives data, which is then processed by the neurons in the hidden layers, and the output layer produces the result of the computation. Neural networks can be trained to perform a wide range of tasks, such as image recognition, speech recognition, natural language processing, and predictive modeling. During the training process, the network adjusts the weights of the connections between the neurons to minimize the error between the predicted output and the actual output. In my project, The neural network was be trained using a combination of supervised and unsupervised learning techniques. Supervised learning will be used to train the neural network to extract relevant information from the resume, such as education, work experience, and skills. Unsupervised learning will be used to help the neural network identify patterns and correlations in the data. Once the neural network had been trained, it was used to analyze new resumes and extract relevant information. The LinkedIn API was then used to retrieve the corresponding LinkedIn profile for each candidate. The neural network then cross-referenced the data points extracted from the resume with the data points on the LinkedIn profile to verify the validity of the resume. This project has the potential to revolutionize the hiring process by providing a more efficient and accurate way to verify the validity of resumes. It will save recruiters and hiring managers a significant amount of time and resources by automating the process of cross-checking resumes with LinkedIn profiles. Additionally, it will help to prevent fraudulent resumes and improve the quality of hires.

**Roles and Responsibility:**

Front-end developer are responsible for creating the user interface and user experience of websites and applications. Their primary role is to ensure that the design and functionality of the front-end of a website or application are optimized for usability and performance. Here are some of the specific roles and responsibilities of front end developers:

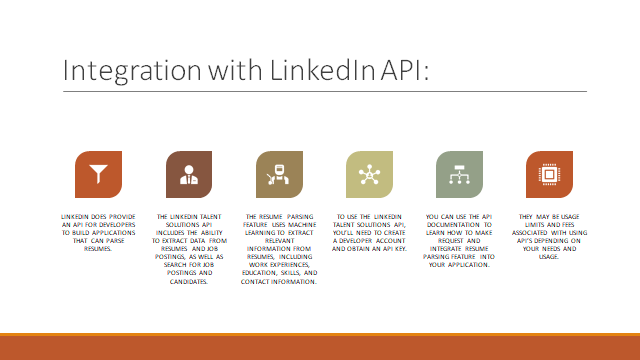
1. Develop user interfaces: Front-end developers are responsible for creating the visual components and interactive features that users interact with on a website or application. This includes designing layouts, selecting colour schemes, creating icons and buttons, and developing user flows.
2. Code and test: Front-end developers use programming languages such as HTML, CSS and java script to write code for the user interface. They are also responsible for testing the code to ensure it works properly across different devices and browsers.
3. Collaborate with design and development teams: Front-end developers work closely with designers and back-end developers to ensure that the user interface is designed in a way that is visually appealing and functional.
4. They must also be able to communicate effectively with stakeholders and clients to understand their requirements and provide solutions.
5. Optimize performance and stay up-to-date with industry trends.

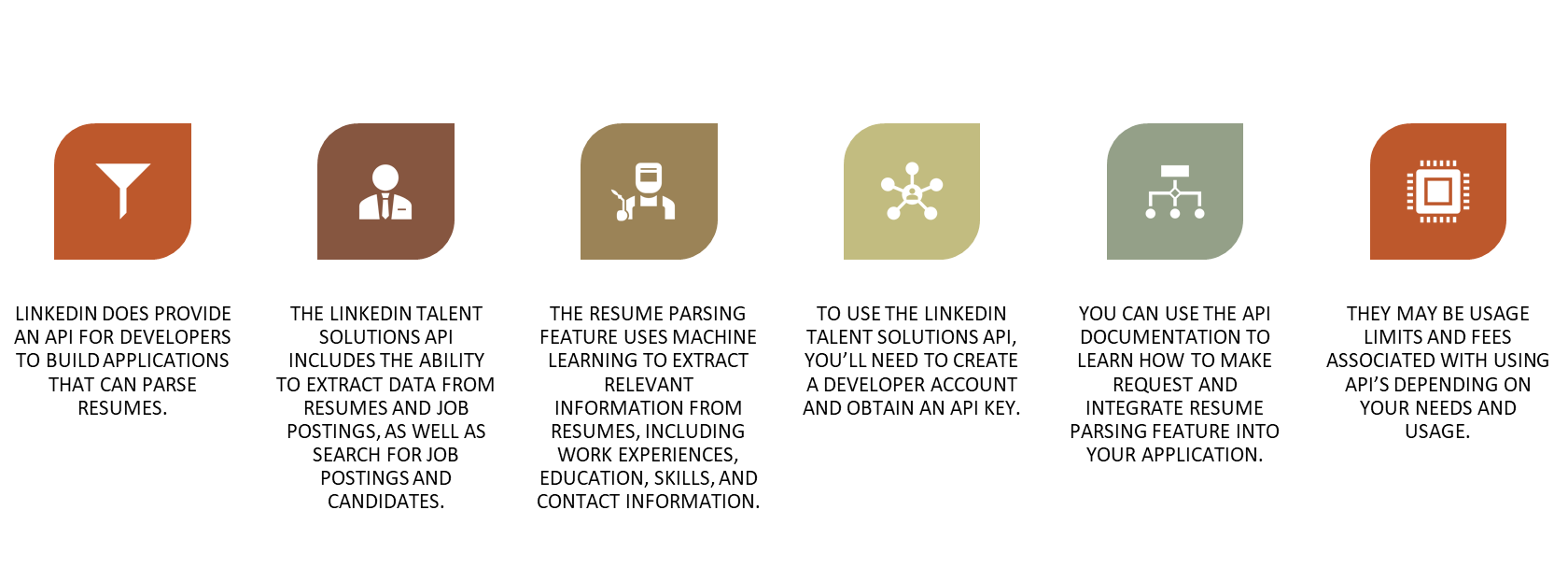
Overall, front-end developers plays a crucial role in the development of websites

**Skills required:**

A front-end developer is responsible for building the user-facing part of a website or web application. The following are some of the skills required for front-end development:

* Proficiency in HTML, CSS and Java script: These are the fundamental building blocks of front-end development . A front –end developer must be proficient in all three to create interactive and visually appealing user interfaces.
* Knowledge of front-end frameworks: There are many front-end frameworks such as React , Angular and vue.js that are used to build complex web applications. A Front-end developer should have a good understanding of these frameworks.
* Familiarity with version control systems: version control systems like Git are used to manage and track changes to code. A front-end developer should be familiar with these systems
* Understanding of responsive design: A front-end developer should be able to design websites that works well on different screen sizes, including desktops, tablets and smartphones.



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