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Resume Genics

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Abstract: *Resume Genics is a website that helps job seekers to create a fabulous resume. Nowadays, hundreds or thousands of people apply for one job vacancy so you should create such a resume which can be easily selected. This website increases the percentage of selection and makes it better by converting into professionals. In this websites use algorithms and machine learning to automate the scanning, analyzing, and ranking of resumes against job requirements.*

Resume Genics will give better format and templates and use professional language and also reduce the human errors. It will receive the resume as input and process it and provide a score or ranking to identify how much candidate is qualified and make it easier for the recruiter to shortlist applicants. It helps the job seeker to get his dream job and qualify the resume selecting process into the dream company.

Keywords: *Resume template, ranker, analyzer, Applicant Tracking System.*

I. INTRODUCTION

A. Need of Resume Genics

As we all know for hiring any person, firstly we check their resume, portfolio and profiles to directly gather information about their work and experiences. With the help of resumes and portfolios we can easily identify that “How can a person participate in our jobs and companies?” A Resume profile plays a very vital role for a job seeker. A resume directly replicates the identity of that person, and provides clear information about his working ability. Here, the overall selection process depends on one thing that is a resume. For making yourself more confident and standing out of the crowd a representable resume is needed. A good resume helps you to make a clear and impressive image in the vision of interviewees.

B. Problems and Solutions

Problems :- Nowadays many companies use the Application Tracking System (ATS) so that they select the resume for the interview call but this ATS system rejects the many resumes before even being seen by the hiring manager. It is the biggest problem for the job seekers because job seekers did not fully fill the ATS needs like professional formatting, perfect relevant keywords and many more. The lack of these ATS needs for a resume did not pass the system algorithms and then the resume will be rejected.

ATS is not the only problem there are so many barriers to qualify the algorithm like proper english grammar knowledge, writing style knowledge and many more. This Resume Genics will fulfill all requirements.

Solutions :- Resume Genics is just like a boon for the job seekers mostly for the freshers because it helps to qualify the Applicant Tracking System algorithms by providing the unique formats and also provides the output to the Resume Genics user that how much the resume is acceptable by scanning the user resume[3].

C. Important characteristics

Resume Template Library: A large selection of editable resume templates are available for users to peruse and download.

Resume Analysis Tool: Produces a compatibility score (in percentage) after analyzing submitted resumes for ATS compatibility.

Companies can upload several resumes to the company dashboard, which ranks them according to job fit and ATS compatibility.

A resume ranking system gives employers a list of resumes arranged according to each applicant's suitability for a certain position.

User Accounts: Enables users and businesses to save resumes, create profiles, and monitor analysis outcomes.

D. Capabilities:

User Interface: User friendly interface provided for both employers and applicants .

Resume Upload: In our website users can upload the resumes in two formats PDFs and DOCs.

Resumes are scanned for keywords, formatting, and structure using an ATS compatibility analysis.

Ranking Algorithm: Examines and assigns a ranking to resumes according to job descriptions supplied by employers.

Customization of Templates: Enables users to modify templates right within the platform.

E. Technological specifications:

Front-end technology: created with contemporary frameworks (such as HTML, CSS, JS, React).

Back-end Technology: Managed by stable technologies (like Node.js).

Database: Apply databases such as MySQL or MongoDB for safe storing.

AI/ML Integration: For algorithms that rank and analyze resumes[2].

Cloud hosting: Trustworthy cloud services (like Google Cloud and AWS).

F. Measures for Security:

Data encryption for safe resume uploads. Secure multi-factor user authentication. GDPR compliance for data privacy.

II. LITERATURE REVIEW

A. Analysing the available systems

Nowadays, a number of websites and applications are available, via anyone can make a resume according to their choice. They provide a number of techniques and features. But the main thing is that they offer these functions in premium packages. In existing websites we can update our work in real time, everything is based on our choice of what type of things we want in our resume. For building any resume, users visit a number of sites, which help them to create a resume efficiently. By analysing available systems, our website provides all three features at one place. Like if someone wants to build a resume, or wants to analyze his own resume whether it is selective or not and moreover this, a company/ organization or even a single person can rank the number of resumes in our website according to their need. Our website has a user friendly interface.

B. Let's understand the working of ATS

ATS stands for Applicant tracking system. In our website Resume Genics, the ATS system is a backbone of our website. The basic function of the ATS system is that, It collects and organizes a number of resumes, and analyses them according to the filter[1]. Basically the ATS system arranges the number of resumes on the basis of some criterias like years of experience, age, education, profession and more. ATS system automates the initial stage of hiring like screening resumes, scheduling them. This makes the processing easier and efficient.

ATS system helps companies and organizations to filter resumes according to their needs so that they can easily reach the right profile.

ATS system provide us:-

Efficient resume screening

Organised user data

Improves Communication

Data-Driven Decisions

Transparency and fair selection processing

III. METHODOLOGY

The main focus of our website is to help the user to make an efficient resume in an efficient way. Services available on Resume Genics are:-

A. Template Library

Template Library is the first service of our website. Here users find a number of templates and formats according to their need[5]. In the Template Library users can choose any template as a default. Users can edit the template, font, size, colour background, and can insert any shapes and figures according to their needs.

In the Template Library users find default templates of different professions.

B. Resume Ranking

Resume ranking is the second service of our website. Here users or any organization, rank their number of resumes based on specific categories[6]. Categories like years of experience, education, age and more. Via this, we can filter resumes on the basis of specific criteria.

This service helps users to reach the right profile.

C. Resume Analysis

In resume analysis we consider following

User Data

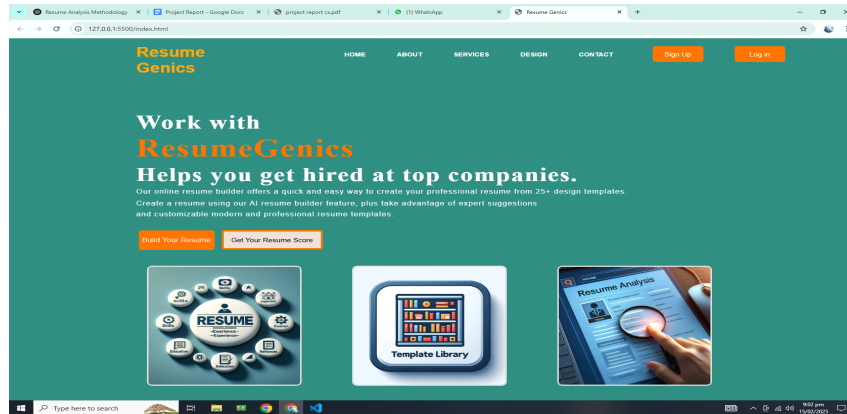
Visual Appearance of resume

Clarity and conciseness

Grammar and language

Keywords and ATS optimizations

By analysing the user resume we provide feedback in the percentage that clearly defines how well the resume is likely to perform in competitive job applications.



Landing Page

Resume Genics landing Page, offers navigation to various user roles. Mainly it has three buttons which are template library, resume analysis and resume ranking. We have created this page in mind that any type of user can understand it and can access it easily.

Landing Page features:-

User friendly interface

Clear Sections

Easy to navigate

Responsive layout

User-Centric flow

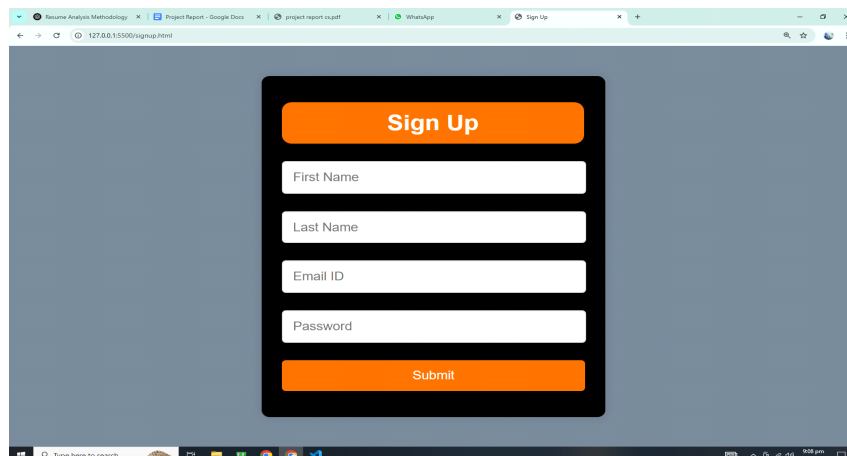
Quick Navigation Bar

Prominent CTA Buttons

Before accessing any service first of all user has to choose one of these in two steps:-

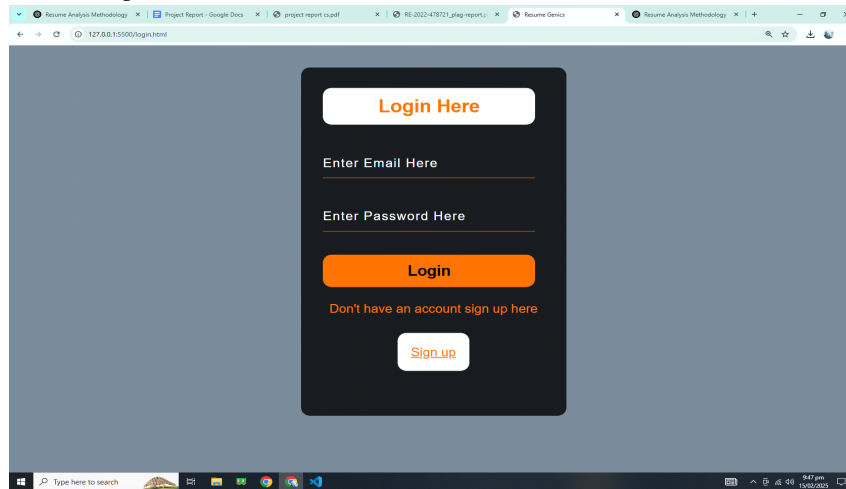
1st is Sign UP

2nd is Login



Sign-Up Page

This is the SignUp Page of Resume Genics. Through this a new user can create his account on our website to simply access the services. Having an account on our website is necessary to store the working of our user. After this whenever the user revisits our website then he can easily access his previous work also.



Login Page

Login Page View of Resume Genics.

The design of our Login Page is very simple and straightforward. Through the login page, users can quickly access their accounts. The Login page includes clearly labeled fields for email and password and also a sign up button added in the end for the users, who have not created an account on Resume Genics.

IV. NON-FUNCTIONAL REQUIREMENTS

Non-Functional Requirements

Performance: Pages should load in under 2 seconds.

Scalability: Adjustment ability to handle new features and increased user traffic.

Security: Uses SSL encryption, GDPR compliance, and secure API endpoints

Uptime: 99% uptime is guaranteed by way of cloud infrastructure.

Usability: An easy and instinctive interface and simple both for job seekers and recruiters.

Maintainability: The code needs to be modular and documented to enable easy updates.

V. SYSTEM CONFIGURATION

A. Software Requirements

Operating System: Windows 10/11

Front-End Development: React.js, HTML5, CSS3, JavaScript (ES6)

Back-End Development: Node.js with Express framework

Database: MongoDB (NoSQL)

AI/ML Framework: Python with

TensorFlow/Scikit-learn

Cloud Services: AWS (EC2 for hosting, S3 for storage, RDS for database management)

Version Control: Git and GitHub

Security: OAuth for authentication, SSL for secure connections

Web Server: Nginx or Apache

B. Hardware Requirements

Hardware necessary requirements for hosting websites and for smooth running.

C. Server-Side Requirements:

Processor: Intel Xeon or equivalent (Quad-core, 2.5 GHz or higher)

Intel Xeon is a powerful processor used for handling multiple requests from users simultaneously.

A Quad-core processor used for ensuring processing of complex tasks and improving website performance efficiency.

A speed of 2.5 GHz or higher allows websites for fast data processing and reduces response time, so that the website can load faster.

RAM: Minimum 16 GB is used to store data temporarily, to enable faster access and processing.

It also enhances the functioning of background processes like database management and content delivery.

Storage: 500 GB SSD (expandable) provides fast read and write speed for fast data retrieval

Network: High-speed broadband (1 Gbps):-

This range of internet connection ensures fast data transmission between server and the user.

This minimizes latency and provides better user experience even during high traffic periods.

D. Client-Side Requirements:

Processor: Intel i5 or higher:-

Intel i5 is necessary to support web browsing, resume building and real time analysis without buffering.

RAM: 8 GB

Storage: 50 GB free disk space

Browser: Latest version of Chrome

VI. WEBSITE FUNCTION

A. User Functions:

Manage user profiles and Merely create the resume into templates. Check ATS compatibility, Ability to save, download and share resumes.

B. Company Functions:

Upload several resumes for analysis.

Order resumes by ATS scores.

See and save results in a ranking.

C. Admin Functions:

Manage users and company profiles.

In addition to overseeing templates and analysis algorithms.

Keep a Check on Performance and Security of the System

VII. CONCLUSION

Our website will be an all-in-one platform for job seekers and employers, changing the landscape of the job market by offering ATS compatible resume design and ATS based ranking of the candidates[4]. Job seekers will enjoy a plethora of customizable templates and comprehensive resume analysis reports designed to boost their chances of passing ATS filters. With this gained efficiency, companies can invest time in the ranking feature of the tool to rapidly offer multiple candidates a chance within a few minutes, ensuring resources are directed toward the right talent.

Using state of the art technologies for resume parsing like AI/(ML) and home-grown system to auto-matching between the applicants[2] and job based on suitability.

VIII. FUTURE SCOPE

There is plenty we can do to further improve the site. Integration of features suggested by AI in resume subject based on job roles and instant feedback on resume quality can be integrated. You can also add a recommendation engine on which job opportunities they will be suitable for base on what kind of resumes they upload. Even better — adding a collaborative space for recruiters and hiring teams where they can review and comment on resumes would encourage a team-based approach to hiring decisions.

Offering features such as sample cover letters, tips for preparing for interviews, and personalized career development resources would enhance the platform's value proposition.



Implementing data analytics enables insights to be extracted from candidate pools, which can improve recruitment strategies. Additionally, provide app development to access our platform on-the-go. This, in combination with ongoing updates and enhancements based on user and recruiter feedback and needs, will ensure that all parties find continued value and functionality as the product matures.

In future Scope, We will keep incorporating elements from the Languages and Cultures of multiple countries. Our website is applicable for users all over the world no matter from where the users belong, they can easily visit and access our website. Our website can effectively relate with a global audience.

In short, Resume Genics is designed to be user-friendly and accessible worldwide, helping people from different countries build better resumes and improve their career opportunities without any language or location problems.

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