

A
Mini-Project Report on
Online Job Portal Using Python

Submitted in partial fulfillment of the requirements
for the degree of
BACHELOR OF ENGINEERING
IN
Computer Science & Engineering
Artificial Intelligence & Machine Learning

by

Nishant Hire (21106060)
Shipra Asthana (21106039)
Archit Medhe (21106010)

Under the guidance of
Prof. Odilia Gonsalves



Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
A. P. Shah Institute of Technology
G. B. Road, Kasarvadavali, Thane (W)-400615
University Of Mumbai
2022-2023



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CERTIFICATE

This is to certify that the project entitled “**Online Job Portal Using Python**” is a bonafide work of Nishant Hire (21106060), Shipra Asthana (21106039), Archit Medhe (21106010) submitted to the University of Mumbai in partial fulfillment of the requirement for the award of **Bachelor of Engineering in Computer Science & Engineering (Artificial Intelligence & Machine Learning)**.

Prof. Odilia Gonsalves
Mini Project Guide

Dr. Jaya Gupta
Head of Department



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Project Report Approval

This Mini project report entitled “**Online Job Portal Using Python**” by **Nishant Hire, Shipra Asthana and Archit Medhe** is approved for the degree of *Bachelor of Engineering in Computer Science & Engineering*, (AIML) 2022-23.

External Examiner: _____

Internal Examiner: _____

Place: APSIT, Thane

Date:

Declaration

We declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission hasnot been taken when needed.

Nishant Hire
(21106060)

Shipra Asthana
(21106039)

Archit Medhe
(21106010)

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-

ABSTRACT

Online Job Portal, this is a website that consists of, a wide variety of job opportunities. In this portal, different organizations or institutions can post their detailed job vacancy requirements. The people in search for a job can access this portal easily and upload their resume to find the perfect fit for the job they are interested in. Interested people can directly apply to the job role posted by the company or respective organization. The primary objective of this website is of posting and managing the job vacancy requirements. It makes searching for jobs with ample of options, in a particular field easier and convenient, with the help of preference in location. Companies can access a candidate's information uploaded by the candidate and match it with their concerned requirement. Eg., stability issues, salary hike, etc. It makes the selection process easier and less time consuming with good profile resumes. Candidates can also look for the details of the company and directly apply to the vacancies available, of their desired dream company. This website also supports a lot of recruiting companies to find a perfect match as per their client requirements too.

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CHAPTER 1

INTRODUCTION

1. INTRODUCTION

Now a day, we know that searching of jobs is so difficult in proficient areas the portal developed for the providing the simple and good job searching. With the help of this portal easily the job seeker can submit their resume and get the lot of opportunity of the job related to their profile. And by this website the companies or employer can also find the good and well profiled resume.

This project is aimed at developing an online search Portal for the Placement Details for job seekers. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided. This system can be used as an Online Job Portal for job seekers. Job Seekers logging should be able to upload their information in the form of a CV. Visitors/Company representatives logging in may also access/search any information put up by Job aspirants. This system can be used as an Online Job Portal for the Placements providing to the un employees who are seeking for a job placement. Job Seeker logging into the system and he can should be able to upload their information in the form of a CV. Visitors/Company representatives logging in may also access/search any information put up by Job Seeker. As of Indian market, there is ample opportunities for the job portal sites, as a greater number of educated and skilled young people are coming out each and every year. Also, as the growth rate of India is zooming to be at a healthy rate over 7%, so it is booming time for corporate also. So, a greater number of lucrative careers will be available for the job seekers. So, it is now the right period for the job portal sites to think out of the box, and to make most of the opportunities available.

CHAPTER 2

LITERATURE SURVEY

2. LITERATURE SURVEY

2.1-HISTORY

As the biggest recruitment platforms in the digital world, job boards act as common meeting places for potential candidates and ingenious recruiters. Since both the parties have profiles on job board websites, it becomes easier for them to look for one another. However, the entire scenario has undergone huge transformations. Job boards weren't as they are now. Rapid digitization and the emergence of new technologies led to crucial changes. Current job board sites differ from the traditional ones to a great extent. Right from their inception to the present times, job boards have come a long way. Let's take a look at this metamorphosis. Here's into the future of job boards. Job boards have a historical background. What you see today is the result of evolution. Before we track these changes, it's imperative to look into the past. The first official launch of job board sites took place in 1992 when Bill Warren introduced 'Online Career Centre.' Initially, it was a BBS or a Bulletin Board, which eventually merged with Monster in 1995. In its initial years, job boards had a generalist approach. Recruiters could find employees from across the world and vice versa. While newspapers had a limited reach and geographical constraints, job board websites could reach out to innumerable people at one go. The promotional model was simple, and here's a short glimpse of it:

- Presence of relevant ads
- Coverage for numerous job listings and vacancies across industry verticals
- No geographical constraints
- Imitating the classified ad model on the web
- Affordable and cost-effective

These characteristics and special features made job board sites quite popular in the recruitment world. It seemed like both employers and employees have got a way out.

2.2-LITERATURE REVIEW

1. ONLINE JOB PORTAL Mustafa Pinjari, Nishit De, Rutvij Kokne, Aamir Siddiqui, Dnyanoba Chitre

Today's tech-savvy generation uses internet for everything right from ordering food to getting hired. In fact, today candidates depend way more on internet than any other source like newspaper or networking. The journey to search a job on internet begins with registration on a job portal and almost every job-aspirant does that then there comes that twist, where few applicants get more and faster responses and job offers whereas others just reduce as one record in the database of the portal. This happens because generally candidates overlook the need of understanding job portals and its features which can simply and speed up their job search[1].

2. An Analysis of Online Job Portal Data Afra Rehman Chowdhary, Ana Carolina Areias

Using online job portal data and probabilistic regression estimations, the paper investigates the explicit gender bias and salary gap in the Indian job market, reflected in more than 800,000 job recruitment advertisements. Exploring formal and informal sector occupations, the study finds high existence of employers' gender bias in hiring. Explicit gender preferences are highly job specific, and it is common to mention the preferred gender in job ads, which, in general, favor men over women. Although ads for professional occupations exhibit less explicit gender bias, they are not gender neutral. In all types of professional jobs, irrespective of the share of ads with preference for men or women, on average, ads targeting men specify/offer much higher salary. Employers in elementary sectors as well as blue-collar jobs express more segregated gender preference. The findings support the existing research that argues women are more preferred in low-quality, low-status, typically low-paid informal jobs. Targeting women for low-quality jobs explains half of the mean offered salary gap specified in ads; the rest is direct gender bias. The paper also suggests that, with the rise of new technology and sectors, gender bias in hiring in those new types of jobs is expected to decline[2].

3. Online job portal Khan, Muhammad Sabeeh, Khan, Muhammad Shaff

The thought of this project is to add to a stage for the graduates to have the job ideas of their related field. Through this application folks or and additionally universities can instruct their students, to get the jobs. This Web Application gives an extremely fun approach to take and apply for the available jobs quick and easily. Students & Graduates will discover this application so fascinating that they can easily search for all the available jobs across the

country. This Application is as necessary as well as important in every field. One of the greater difficulties that the general public faces is guaranteeing that students to get job(s) properly, so that they may build up their aptitudes and thus, add to the general public. The target of this is to outline a framework that will help folks in getting new and better job(s)[3].

4. Implementation of an Intelligent Online Job Portal Using Machine Learning Zarrin Tasnim, Shaikh Muhammad Allayear

Business intelligence and analytics are data management solutions implemented in companies and enterprises to collect historical and present data, while using statistics and software to analyze raw information, and deliver insights for making better future decisions. In the circumstances of today's world, to survive and established own business need an analytical and find an easiest way or intelligence business model. The main objective is to examine the performance of various Machine Learning algorithms in order to perform with the system of an online job portal. This proposed module integrated with three phase such as, the Clusters similar kind of job search phase (CSK) is a way of knowing the demand is to create a visual graph showing clusters of similar kinds of job searched by the job seekers in the website of the job portal, the email notifications send phase (ENS) is responsible to send email notifications to the job seekers when a job circular is posted in the website. The result shows the successful clustering of similar job search, email notification sends to specific people and extracts the information from the web[4].

5. The Potential for Using Job-Portal Shinsaku Nomura, Saori Imaizumi

Economists and other social scientists are increasingly using big data analytics to address longstanding economic questions and complement existing information sources. Big data produced by online platforms can yield a wealth of diverse, highly granular, multidimensional information with a variety of potential applications. This paper examines how online job-portal data can be used as a basis for policy-relevant research in the fields of labor economics and workforce skills development, through an empirical analysis of information generated by Babajob, an online Indian job portal. The analysis highlights five key areas where online job-portal data can contribute to the development of labor market policies and analytical knowledge: (i) labor market monitoring and analysis; (ii) assessing demand for workforce skills; (iii) observing job-search behavior and improving skills matching; (iv) predictive analysis of skills demand; and (v) experimental studies. The unique nature of the data produced by online job-search portals allows for the application of diverse analytical

methodologies, including descriptive data analysis, time-series analysis, text analysis, predictive analysis, and transactional data analysis. This paper is intended to contribute to the academic literature and the development of public policies. It contributes to the literature on labor economics through application of big data analytics to real-world data. Finally, the report examines the potential for using big data to improve the design and implementation of labor market policies and promote demand-driven skills development [5].

CHAPTER 3

Problem Statement

3. Problem Statement

- Finding the right job or the right candidate for a job can be a challenging and time-consuming task.
- Many job seekers struggle to find suitable job openings, and many employers find it difficult to attract the right candidates.
- Therefore, the need for an online job portal arises, where job seekers can search for job openings based on their preferences, and employers can post job openings and receive applications from qualified candidates.
- The portal will have a user-friendly interface that allows job seekers to search for job openings based on various criteria such as job title, location, industry, and company name.

CHAPTER 4

Experimental Setup

4.Experimental Setup

4.1 Hardware Setup

Processor 11th Gen Intel(R) Core (TM) i5-1135G7

AMD Ryzen 5 5400H with RTX 3050

Installed RAM 8.00 GB (7.73 GB usable)

System type 64-bit operating system, x64-based processor

4.2 Software Setup

PyCharm

Python 3.10

Visual Studio

MySQL

CHAPTER 5

Proposed System & Implementation

5. Proposed system & Implementation

5.1 Block diagram of proposed system



5.1 Block Diagram

5.2 Description of block diagram

The above block diagram represents the Online Job Portal. The candidates register through our website for applying for job. The candidate can add his biodata because of which it makes easier for them to get a nice job. Candidates are able to see the job vacancy and company details. For storing employee details, we have use MySQL as our database.

5.3 Implementation

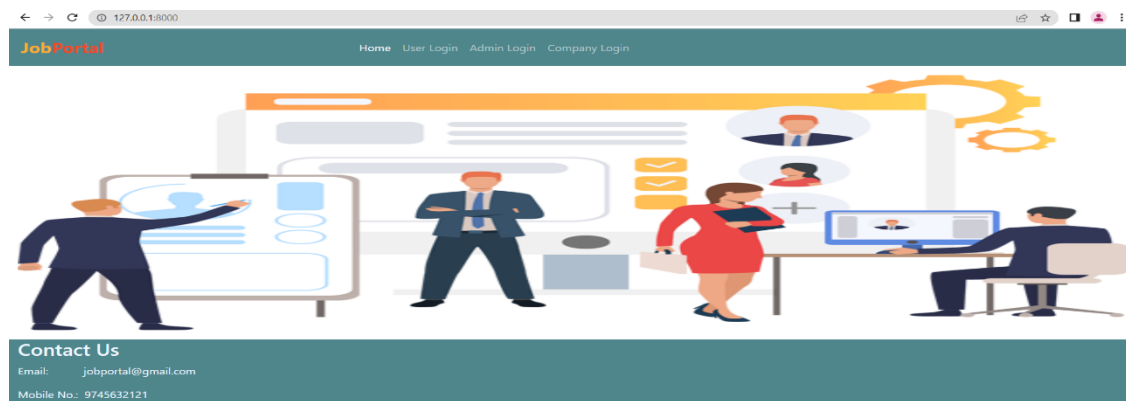


Figure 5.3(1) Home

← → 127.0.0.1:8000/signup/

JobPortal Home User Login Admin Login Company Login

First Name
Enter First Name

Last Name
Enter Last Name

Password
Enter Password

Confirm Password
Confirm Password

Email Id
Enter Email Id

Contact Number
Enter Contact Number

Gender
☐ Male
 ☐ Female

Profile Picture
 Choose File No file chosen

Submit

Figure 5.3(2) User Login

← → 127.0.0.1:8000/admin_login/

JobPortal Home User Login Admin Login Company Login

Username
Enter Username

Password
Enter Password

Submit

Figure 5.3(3) Admin Login

← → 127.0.0.1:8000/company_login/

JobPortal Home User Login Admin Login Company Login

Haven't register yet, then click here [Signup](#)

Username
Enter Username

Password
Enter Password

Submit

Figure 5.3(4) Company Login

5.4 Advantages/ Application/ result table can be included in this subsection.

- An online job portal saves time and cost for both job seekers and employers. Job seekers can search for job openings from the comfort of their homes, and employers can receive job applications online, eliminating the need for physical applications.
- Job seekers can search for job openings based on various criteria such as location, job title, and industry, and apply for jobs with just a few clicks.
- Better Candidate Screening: An online job portal allows employers to screen candidates efficiently. Employers can filter job applications based on various criteria such as qualifications and work experience, shortlist candidates, and schedule interviews.
- Online job portals are available 24/7, allowing job seekers and employers to access the portal at any time.

CHAPTER 6

Conclusion

An online job portal is a useful platform for job seekers and employers to find each other. The project aims to develop an online job portal that provides job seekers with a convenient and efficient way to search for jobs, and employers with an easy way to post job openings and manage job applications. The portal can be further improved by adding more features such as job alerts, candidate screening, and job recommendations.

6.1 Future Scope

- Social media integration can help online job portals reach a wider audience.
- Job openings can be shared on social media platforms, attracting more job seekers to the portal.
- Employer branding can become an essential aspect of online job portals.
- Mobile optimization can be the future of online job portals.

References

Research papers

- [1] Mustafa Pinjari, Nishit De, Rutvij Kokne, Aamir Siddiqui, Dnyanoba Chitre, “ONLINE JOB PORTAL”, International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, p-ISSN: 2395-0072, Volume: 06 Issue: 04, April 2019.
- [2] Afra Rehman Chowdhary, Ana Carolina Areias, “An Analysis of Online Job Portal Data”, World Bank Policy Research Working Paper No. 8379, Posted: 27 Mar 2018.
- [3] Khan, Muhammad Sabeeh, Khan, Muhammad Shaff, “Online Job Portal”, University of Management and Technology Lahore, Issue Date: 2015.
- [4] Zarrin Tasnim, Shaikh Muhammad Allayear, “Implementation of an Intelligent Online Job Portal Using Machine Learning”, Emerging Technologies in Data Mining and Information Security, First Online: 05 May 2021.
- [5] Shinsaku Nomura, Saori Imaizumi, “The Potential for Using Online Job-Portal”, World Bank Policy Research Working Paper No. 7966, Posted: 27 Feb 2017.

Useful Links:

- [6] <https://youtu.be/7wnove7K-ZQ>
- [7] <https://youtube.com/playlist?list=PLDLLuBZ1-Ettw3bWBAkoLGT8li83dg34b>
- [8] <https://youtu.be/MhaH7o3lf4E>