Career Hub – A Website That Provides Platform for Career Opportunities

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ABSTRACT

Career Hub is a website that offers courses, internships, jobs, and advice regarding a specific field to assist students or job seekers in taking action to uplift their careers. Students will be given classes and study materials to help them find internships depending on their preferences. Users will be given road maps for certain fields, allowing them to determine their preferences with ease.

In this competitive era, the demand for education is increasing and the opportunities for them are decreasing on a daily because of the quality. Companies also want people who are the best in their fields. In the present time, it is going difficult to find people who are good enough to be hired. Thinking about these problems, one can think about the process that can handle and make the work less complex.

With the completion of the course, which will qualify them to apply for a job in a company for the relevant post that will be posted on the website, this project will assist the individual in developing their talents. After registering, the person will have an account and will be referred to as an applied user. The project is designed to streamline the application process for both the student and the employing organization. They do not need to relocate in order to take the courses and positions available.

As a result, we had the notion that there ought to be a platform for everyone. They will therefore have access to all chances, whether they include gaining new skills or finding employment, in one location.

KEYWORDS

Career; Career Platform; Career Application; Website; Internship Opportunities; Complete Course Available; Career Hub; Machine Learning; Jobs; Courses.

1. INTRODUCTION

With the development of technology, individuals over the globe are attempting to complete tasks quickly because, in today's society, time is of the utmost importance. To complete the tasks quickly, proficiency in skills is required.

Nevertheless, since all of the study materials are dispersed over the internet, learning new abilities is a challenging job to complete the relevant assignment fast. As a result, someone must construct a comprehensive road plan for the learning process before it can begin, and occasionally we have to pay to learn something new. To ensure that they do not encounter any obstacles during the procedure and receive the quality learning which is necessary to add a star to their profession, the entire process is time-consuming for quality.

Some students are unsure about what to do next even after mastering the new skills. We have a separate section where we will post internships and employment to help you go forward with your new abilities. Several businesses, institutions, etc. post or promote job openings on this site in accordance with their requirements so that people looking for work can review the numerous employment opportunities and learn more about the associated business. Companies also review job seekers' CVs to see if they satisfy their criteria before hiring or approaching them for openings.

This project aims to develop an online platform for learners to learn something new without paying a penny and a Portal for the Placement of 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 in 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.

1.1 Motivation Of The Project

As students, we are all aware that the entire learning process is tough and demands a significant investment of both time and money. To make this process easier and more beneficial for everyone, whether it is about learning something new or taking your initial steps towards a career, we don't have to look everywhere.

2.   LITERATURE SURVEY

[1] Using classification, provide a prediction for increased performance Alaa M. El- Halees and Mohammed M. Abu Tair. The graduate student data from the College of Science and Technology Khanyounis was used as the case study in this work to analyze the educational domain of data mining. Data from 1993 to 2007 span fifteen years. It demonstrated the types of data that could be gathered, how the data might be preprocessed, how data mining techniques could be used on the data, and ultimately how we could take advantage of the knowledge that was revealed. Findings from the data might be of many different types of knowledge. We looked into the most prevalent ones, including association rules, classification, clustering, and outlier detection, in this study. For implementing the strategies, the Rapid Miner program is employed.

[2] Data Mining: Performance Improvement in the Education Sector Using Classification and Clustering Algorithms The Gadde Shravya Sree Knowledge discovery in databases is another name for data mining (KDD). Student retention has evolved into a measure of academic success and enrollment administration. Potential issues will be discovered early in this case. In terms of filling in missing values, converting values from one form to another, and choosing pertinent attributes and variables, the raw data were preprocessed. Classification is one of the best data mining strategies for e-learning. Data is mapped into categories via classification. Due to the fact that the classes are established prior to data analysis, it is frequently referred to as supervised learning. It is more advantageous to identify kids with low academic achievement when performance can be predicted with high accuracy.

[3] Data mining: Classification-based performance improvement predictions Saurabh Pal and Brijesh Kumar Bhardwaj In educational settings, it is crucial to be able to forecast a student's performance. academic achievement of students is based on various aspects including personal, social, psychological, and other environmental elements. The use of data mining is a very promising strategy to achieve this goal. In order to find hidden patterns and relationships that can aid in decision-making, data mining techniques are applied to enormous amounts of data.

[4] K-means clustering and decision trees: A Method for Increasing Student Academic Performance "Md. Hedayetul Islam Shovon," " Mahfuza Haque" The academic planners' preferred criterion for assessing students' academic progress is still GPA. Throughout their time in college, a student may encounter a variety of obstacles that prevent them from achieving and maintaining a high GPA that accurately reflects their overall academic performance. These elements could be the focus of techniques that faculty members create to enhance student learning and boost their academic success by tracking the development of their performance. Identifying the essential qualities for future prediction with the aid of the clustering algorithm and decision tree of the data mining approach is possible.

[5] Using adaptive e-learning, an online career counseling system Vinit Nimkar, Kazi Fakir Mohammed, and Sushopti Gawade The phrase "adaptive learning" refers to a teaching strategy that makes use of computer-based interactive teaching tools that tailor the presentation of educational materials to the needs of the students as demonstrated by their responses to activities and questions. The technology thus incorporates ideas that have their roots in several academic disciplines, including psychology, computer science, and education.

[6] Studies show that novice programmers have additional challenges when enrolled in an introductory course with students who already possess programming knowledge. It is advised to divide an introductory programming course into sections for inexperienced and advanced pupils. The reason this is regarded as the best practice is that pupils can learn at their own pace. There are two entry points in Michigan Tech's beginning course: one is for students who have never programmed before, and the other is for those who do. The separate courses for the two different student types had a beneficial effect on beginning programmers.
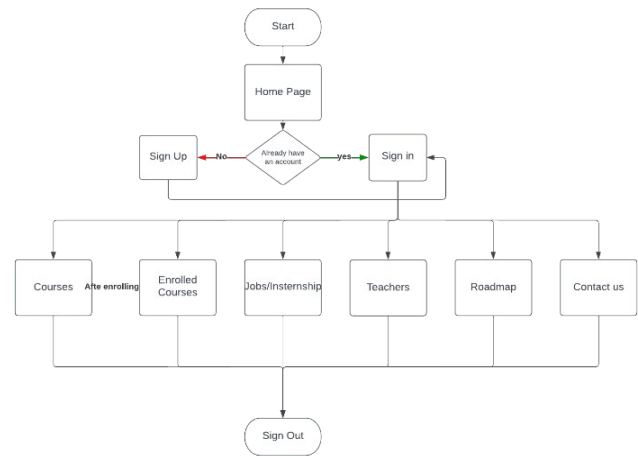
3.   FLOW CHART

Figure 1. Flow chart of Career-Hub.

We will first start, then if the user already has an account, he/she will sign in else they will signup and will be directed to the homepage. On the home page, there are 6 navigations:- courses, enrolled courses, jobs/internships, teachers, roadmap, and contact us.

There are course sections where we will get all the courses and whichever courses you have enrolled in will come under the enrolled courses section. Based on your courses you will be getting jobs/internships on this page. Teachers are available for clearing the doubts of the student. The Roadmap section is for proper scheduling of how to go further. At last contact us option is there for solving any queries regarding the courses or any feedback you have and at last, we have a signout page to exit.

4.   METHODOLOGIES

4.1   Machine Learning
[7] A subfield of artificial intelligence called machine learning enables computers to learn and grow without being explicitly programmed. Machine learning is all about the invention of software tools that can take in data and figure things out for themselves.

4.2   Decision Tree
The decision tree is the most effective and well-liked technique for categorization and prediction. A decision tree is a type of tree structure that resembles a flowchart, where each internal node represents a test on an attribute, each branch is an outcome of the test, and each leaf node is a class label. In a decision tree, all the test points show testing particular input variables and the branches reflect the created decision tree. Decision trees are most likely

used for categorization in data mining applications due to their versatility and straightforward presentation.

4.3 Supervised Learning

It is a hypothetical model that is applied to tasks that require predicting one value from a set of accessible data using other values. The labels for supervised reading will be predetermined. separates an item depending on one of the criteria of the provided labels. Other alternative supervised learning algorithms are available, including K Nearest Neighbor, Naive Bayes, Decision Tree, and many more. We choose the best prediction method based on the requirements, labels, parameters, and set of accessible data. Algorithms are used to create a model that makes predictions based on the data when the data is ambiguous. The "Bayesian Classifier or K Nearest Neighbor algorithm," a powerful and effective technique for making predictions, is what we employ for this project.

5. CONCLUSION

In order to help students, find the best suggestions for candidates based on their interests, whether those interests are in the area of acquiring new skills or in the area of the newest and most available job vacancies, we have created and constructed a website. Our initiative stands out from our rivals since the courses offered to learn new skills will be free, along with the study materials. We will give our model a lot of training in order to increase the recommendation system's accuracy.

6. FUTURE SCOPE

In the future, we will collaborate with organizations that share our philosophy to offer higher-quality courses at reasonable prices that any student can afford. After all, all we do is for the benefit of students who want to acquire new skills quickly.

As time goes on, we'll work to improve the system's quality and simplify the students' approaches, whether they're focusing on learning something new or looking for job opportunities.

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