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College Placement System

Nilesh Vispute[1], Krish Bavadiya[2], Adeeba Pinjar[3], Nidhi Panchal[4]

[1]Assistant professor Information Technology, Pravin Patil college of diploma Engineering and Technology, Mumbai, India
[2]Student, Pravin Patil college of diploma Engineering and Technology, Mumbai, India
[3]Student, Pravin Patil college of diploma Engineering and Technology, Mumbai, India
[4]Student Pravin Patil college of diploma Engineering and Technology, Mumbai, India

ABSTRACT

The system focuses on automation of conventional training and placement management system. This system can be used as an application for the Training &Placement Officers in the college to manage the student information with regard to placement and providing assistance using the assistance portal where students can post their query to the TPO and coordinators. Providing Student login helping them to update their personal and educational information in a form which will be added to the database and upload a resume and providing them with preparation materials for placements. An additional feature of the portal is a Company Tab which will be providing assistance to the companies to shortlist the students as per their eligibility criteria. It reduces the manual work and consumes less paperwork to reduce the time Front end of the system is developed with the help of CSS, Bootstrap, and HTML Backend of this system will be managed with the help of PHP, Android and XML.Database management of this system will be done with the help of MYSQL database

1. INTRODUCTION

In today's world everyone is travelling for jobs after Completion of their graduation.It has became need for each and every student, but for that they need to travel world wide in searching of jobs. For simplicity of this whole hectic procedures we had proposed Online Training and Placement System because of earlier system is totally done manually by maintaining records ,time consuming and very difficult to maintain coordination between student and companies. The project is aimed at developing an online web application for the training and placement department of the college. The system is an online web application that can be accessed throughout the Institute with proper login provided.

This system can be used as an application for the TPO of the college to manage the studentinformation with regard to placement. The main objective of Placement Management System is to develop software which manages placement activities in college makes a interactive GUI where TPO can manage details of all students on his console, he can send a mails to students informing about placement activities. The college placement system is a critical component of higher education institutions worldwide, serving as a bridge between academic learning and the professional world. It plays a pivotal role in guiding and facilitating the transition of students from their educational programs to meaningful and rewarding careers. The system encompasses a range of services and resources designed to equip students with the skills, knowledge, and opportunities required to secure employment and establish successful careers in their chosen fields. In essence, the college placement system serves as a crucial support system that empowers students to make informed career decisions, equips them with essential skills, and connects them with potential employers. This introduction merely scratches the surface of a multifaceted and dynamic system that plays a pivotal role in shaping the futures of students as they embark on their professional journeys.

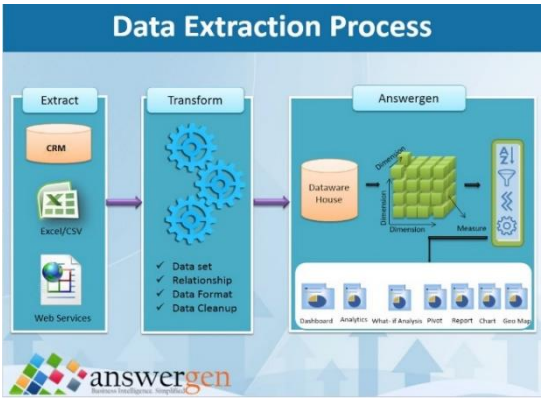
2. METHODOLOGY

2.1 Preprocessing

Incorporates preparing of the framework. There will be diverse sorts of information being put away in the database Like marks acquired, courses, certification, publication presentation, short term training program, hands-onsessions and so on For good analysis we need to gather buzz words identified with technical names. It is basic top notch to first-rate the substantial keywords. Keywords are defined as sequence of one or more words and provide compact description of a content.

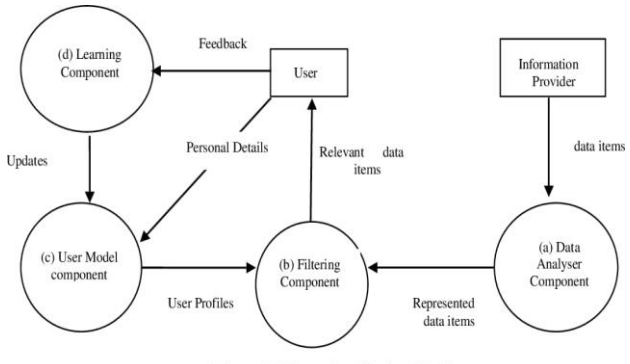
2.2 Extraction

In the Extraction we include Data extraction from database. A fundamental token is allotted to user and can be utilized to seek any information. Information such as student's details, mark sheet and add-ons will be extracted for processing. This will in any case exclude a job role list. However, keywords related to the search can be identified.



2.3 Filtering:

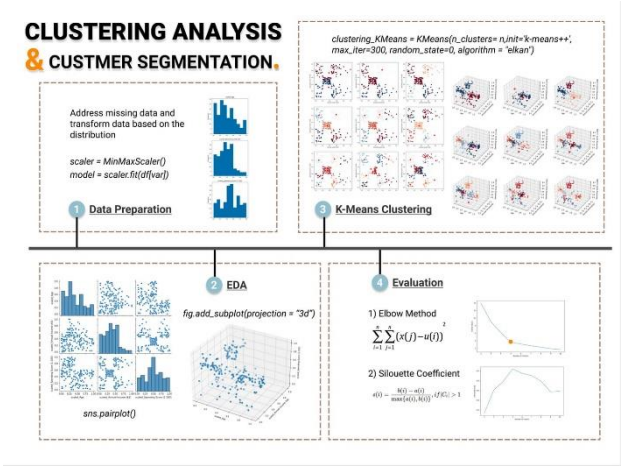
Now comes the important aspect, separating wheat from the husk. Once the entire data is gathered, we need to convert it into information. As the extracted information is stored in a separate database known as knowledge source, which is retrieved for further tasks. Filtering includes tokenization and cleaning functions. Filtering is done based on the list of keywords, which are analyzed or mined by examination from the training corpus. Techniques are used to find out the linking data and table of databases respectively in the preprocessing phase for providing assistance in the process of filtering the contents of message. Filtering is a fundamental process used across various domains to select or exclude specific elements or information from a larger dataset or context. Its primary purpose is to refine and prioritize content, data, or experiences by applying predefined criteria, rules, or algorithms. Filtering can serve diverse purposes, such as managing information flow, enhancing data analysis, and improving user experiences. In practice, it takes on many forms, including content filtering to restrict web access or data filtering to extract specific records from databases. The criteria for filtering can range from simple keyword-based rules to complex machine learning algorithms that learn and adapt based on patterns and user behavior. While filtering offers significant benefits in managing information and providing personalized experiences, it also presents challenges related to fairness, transparency, and privacy, making it an essential consideration in modern information systems, from content recommendation algorithms in streaming services to search engine results and social media curation.



2.4 Clustering

Clustering partitions the informational index into groups or equality classes. We have clustered users into various categories based on the requirements of result generation. For analysis of the outcomes, we have made use of clustering calculations. Clustering is a fundamental technique in data analysis and machine learning that involves grouping similar data points or objects together based on certain features or characteristics. The goal of clustering is to identify patterns, structures, or natural groupings within a dataset, allowing for a deeper understanding of the underlying relationships.

Clustering algorithms aim to partition data into clusters, where objects within the same cluster share similarities, while those in different clusters are dissimilar. This process aids in data exploration, pattern recognition, and decision-making.

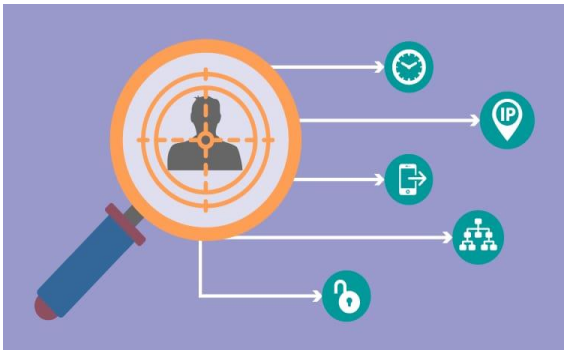


2.5 Identification of Users

Identify the applicants who are keen on data identified

with a specific class. The process utilizes selection of category to identify the interested users from the posts. The procedure includes Extraction of users who are linked or associated to the various keywords related to the search have to be shown inclination towards similar jobs. From that point we set up the database of users in each category. the identification of users is a fundamental aspect of many digital systems and services, encompassing a range of processes and technologies that establish and verify the identity of individuals or entities interacting with a system. It plays a critical role in security, access control, personalization, and user management.

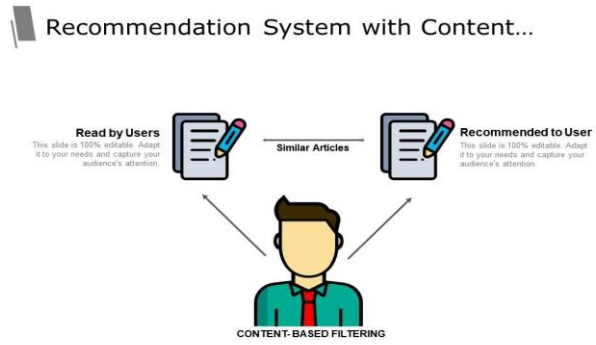
Identification methods can vary from basic username-password combinations and PINs to more advanced techniques such as biometric authentication (e.g., fingerprint, facial recognition) and multi-factor authentication (MFA), which combines multiple methods for added security. User identification is vital in ensuring that only authorized individuals gain access to sensitive data, systems, or services while protecting against unauthorized access or fraud.



2.6 Content Based filtering in Recommendation system

Next step is, Content-based filtering, also referred to as cognitive filtering, recommends items in view of a correlation between the content of the items and user profile. The content of each item is represented as a set of descriptors or terms, typically the words that occur in a document. The user profile is represented with the same terms and built up by analyzing the content of items which have been seen by the user. Content-based filtering is a key technique in recommendation systems designed to offer personalized content or product recommendations to users. This method relies on analyzing and understanding the characteristics or attributes of items and then suggesting other items with similar features to those the user has shown interest in. Content-based filtering is widely used in e-commerce, streaming services, and news platforms.

The process begins by creating a profile for each user based on their past behavior or explicitly provided preferences. Simultaneously, item profiles are established by analyzing their attributes, such as text content, genres, or metadata. The system then matches user profiles with item profiles to recommend items that align with the user's preferences. For example, in a movie recommendation system, if a user has previously enjoyed action films with certain actors and directors, content-based filtering would recommend other action films that share those same attributes.



3. LITERATURE SURVEY

Many researchers have contributed to the

Fields of logic-based implementations. Also, there have been In numerable contributions in the literature aspects of engineering education. The study by Angadi S.S and Ravanavar G.M has reported a study of functioning of training cells in colleges of higher education. The Mysuru region-based institutions have been studied in this paper. The data corresponds to a sample size of 33 private institutions. The study says that only about 40% of the students express their satisfaction towards the numbers of training given to the students to expand their career opportunities. This is a very significant observation. The paper details how students' performance in

academics may be studied based on following methodology techniques. A new approach is proposed for performance evaluation using this system. This system

considers the student constant valuation. Various aspects The comparison between the new placement approach and the traditional evaluation approach shows that it helps in identifying the students who are at the overlapping area of two class distributions, thus enabling the educators to monitor the progress in a better way. Knowing the conventional training and placement aspects well, a unique system for computerization of existing management systems is reported in supplementing the skill set needs of the students.

4. Case study

Background: SuccessLink University (SLU) is a renowned institution known for its diverse academic programs and commitment to students' holistic development. The university has a history of placing a strong emphasis on career services, recognizing the importance of guiding students towards successful career paths.

Challenge: SLU faced the challenge of enhancing its college placement system to meet the evolving needs of both students and employers. The existing system, while effective, needed to adapt to changing industry demands, student expectations, and the digital age.

Solution: SLU initiated a comprehensive overhaul of its college placement system, adopting a technology-driven and student-centric approach:

1. **Digital Transformation:** The university launched a user-friendly online platform where students could create profiles, access career resources, and apply for jobs and internships. The platform also allowed for tracking placement statistics and outcomes.
2. **Data-Driven Insights:** SLU leveraged data analytics to gain insights into the job market, enabling better alignment of academic programs with industry needs. This data-driven approach informed curriculum enhancements and career counseling.
3. **Personalized Career Pathways:** The university introduced an AI-driven career recommendation system. It considered students' interests, skills, and academic progress to suggest tailored career pathways, internships, and skill development opportunities.
4. **Virtual Career Fairs:** In response to the COVID-19 pandemic, SLU organized virtual career fairs, connecting students with a wide range of employers. The online format allowed for broader participation and more flexible scheduling.
5. **Mentorship Program:** SLU established a mentorship program, pairing students with alumni and industry professionals. This mentorship provided invaluable guidance and networking opportunities for students.

5.CONCLUSION

In conclusion, the college placement system is an indispensable component of higher education institutions that plays a pivotal role in shaping the future of students. It is a dynamic and multifaceted system that bridges the gap between academic learning and the professional world, offering a wide array of services and resources to empower students in their career journeys. The college placement system is necessary now a days. Because in india every year 15 lakh engineers are graduate and among from 15 lakh engineers only 2.5 lakh engineers get the job.

6. REFERENCES

To find references and sources related to the college placement system, I recommend using academic databases, library resources, and online search engines. Key terms and phrases to use in your search include "college placement system," "career services in higher education," and "college job placement research."

1. **Google Scholar:** A search engine dedicated to scholarly articles, theses, books, and conference papers.
2. **JSTOR:** An academic database that provides access to thousands of academic journals, books, and primary sources.
3. **Academic Search:** A comprehensive and multidisciplinary database providing access to a wide range of academic resources.
4. **ERIC (Education Resources Information Center):** A database specifically focused on educational research and literature.
5. **ProQuest:** A platform that offers access to a wide variety of academic content, including research articles and dissertations.
6. **Your University Library:** If you are affiliated with a university or college, your institution's library likely provides access to numerous academic databases and journals.