



Automated career pathway system based on process skill model

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ABSTRACT: Select an right career can be difficult for frame the student's future. Student does not able to choose right career according to their skill. A student generally select given field or pathway according to their marks and ignore their actual skill i.e. their hobbies, technical skill etc. For that reason, The System builds a android application, for selecting better career guidance. Then system will suggest the career to the student, on the basis of their 10th ,12th ,diploma ,graduation ,post graduation ,hobbies ,personal skill, technical skill, activities . After that, on student's data apply prediction technique. then system suggest the career

KEYWORDS: android application, career

INTRODUCTION

From a very early age choosing a career is always an important task of our life. This issue always difficult for minds as to what our interest lies in. Those have to decide what has to be done next in life, but still are confused. The children studying in SSC are tensed about their future. Children who have no idea as to which path to choose, what type of further education to choose, what type of job to take up and what life they want to live. Basically the system gives ultimate relief for both, students and parents. This system will help to clear the confusion in the mind of the student. System aim to guide students by leading them into a details of study which will give them an idea how to start and what to do further.

Services that intend to set in persons, of any age at any step of their lives, for making educational, training and occupational choices and managing their careers. Career guidance has a big role in the development of the individual's life. With career counseling, the individual will become useful and positive in his society.

Meanwhile, in the actual education system, a student generally selects a given field or a pathway only because it is the tendency, clear his personal skills and reel capabilities. The reason is that the affectation is made on the basis of his grade point average marks: The highest marks, the more is your priority to select your desired field, even if you do not have the necessary capacities to succeed in it. This is penalizing the students, leading most of them to miss their careers. For that matter, we thought about building a reliable model, allowing a better career guidance.

The students who have passed their two years of preparatory classes for integrating the engineering schools, due to big differences between the subjects that they studied for their final test, and the subjects that they'll encounter in the engineering schools, which vary also from field to another. Those have succeed then to build an automated system for matching these students to their most appropriate engineering fields

LITERATURE OF REVIEW

Review of literature based on the paper "Game Based Learning" In recent years, Digital Game-based Learning (DGBL) is becoming more popular in the field of educational technology . Some scholars believed that DGBL would become a new digital learning model . However, their structural effectiveness of a game is often based on stimulating motivation, establishing social skills, or changing learning attitudes rather than emphasizing their effectiveness as standalone knowledge acquisition mechanisms .Career counseling should not focus on knowledge acquisition, but on self-understanding and future planning.

Review of literature based on the paper "ONLINE CAREER GUIDANCE SYSTEM"
A Career Guidance System where students can see various career opportunities, the system shows various fields available after 10th, 12th for graduation and after graduation fields are also available. It also lists various colleges available where students can search colleges by their courses. Next the system allows users to give a test. The tests have two levels. The first level has questions which help us to identify which field the student is interested in and based on this the second level will accordingly ask questions from their interested field. The first level has same questions for all the standards as it is not based on knowledge but on the interests. The second level questions will be from that field in which the student is interested the most, along with questions from other fields. After the successful completion of both the levels, the student will receive his result along with a detailed explanation and advice from us. The explanation will state the reason as to why we feel a certain career is better for him/her and why not the other

Review of literature based on the paper "Computer -assisted Career Guidance Systems"
In recent years, the development of computer technology allows the computer-based self-assistant tools to come true. Some individuals who face difficulties in making career decisions can seek for counselors and use self-assistant tools such as Self-Directed Search, or computer-based career information and guidance systems. CACGS is generally believed that it is not to replace the counselor, but to supplement. Since people can get work-related knowledge through CACGS, it can be seen as a kind of education. CACGS have been confirmed to be well performed in a variety of ways including:

- (a) providing structured interactive dialogue between the computer and the client;
- (b) using an inexpensive way to store and update data files;
- (c) searching data inexpensively;
- (d) providing an individualized assessment and interpretation;
- (e) providing specific treatments based on his/her individual needs .

DISCOVER is a computer-assisted career guidance system developed by American College Testing. The system interacts with five different program modules to generate personal fit occupations and possible work environment.

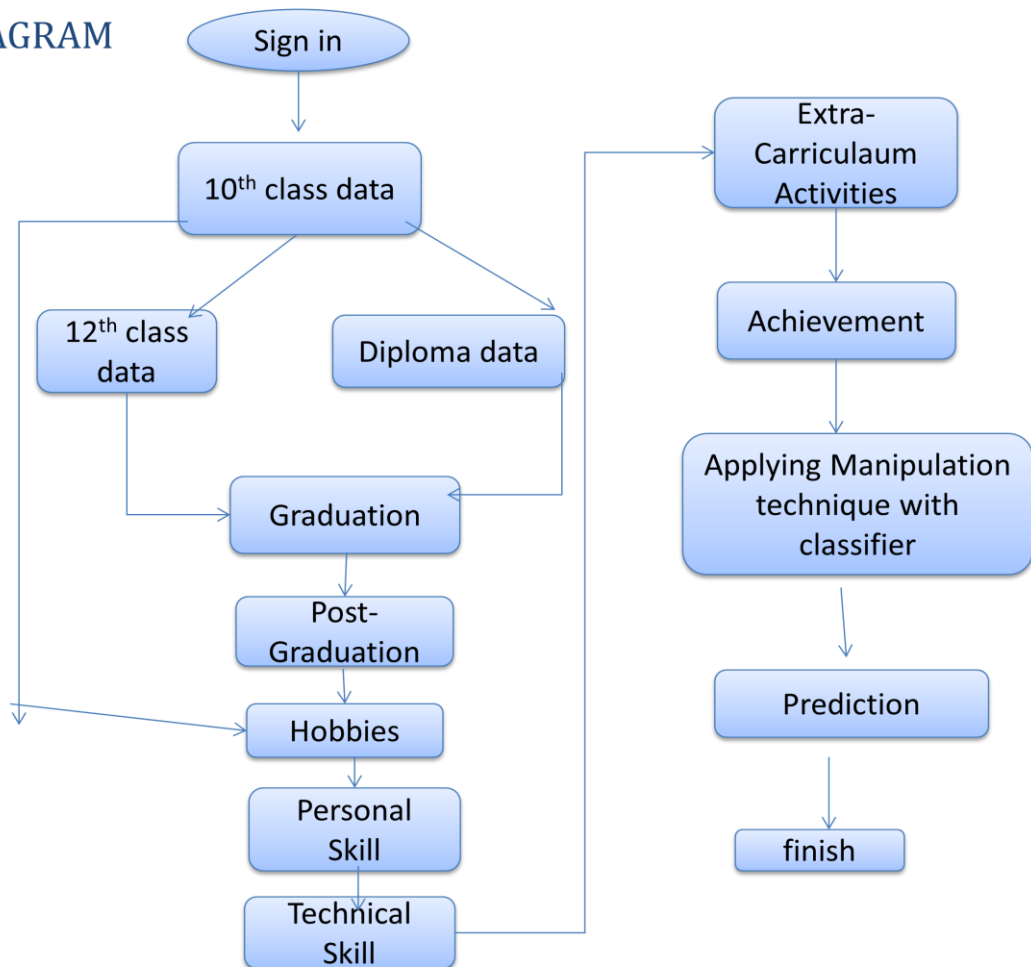
PROPOSED SYSTEM

Career guidance system is software developed for students to choose a best career option. It facilitates to the students for selecting their best career option . The Purpose of developing the career counseling system is to that student will able to select right career option.

Career Counseling system work with following manner:

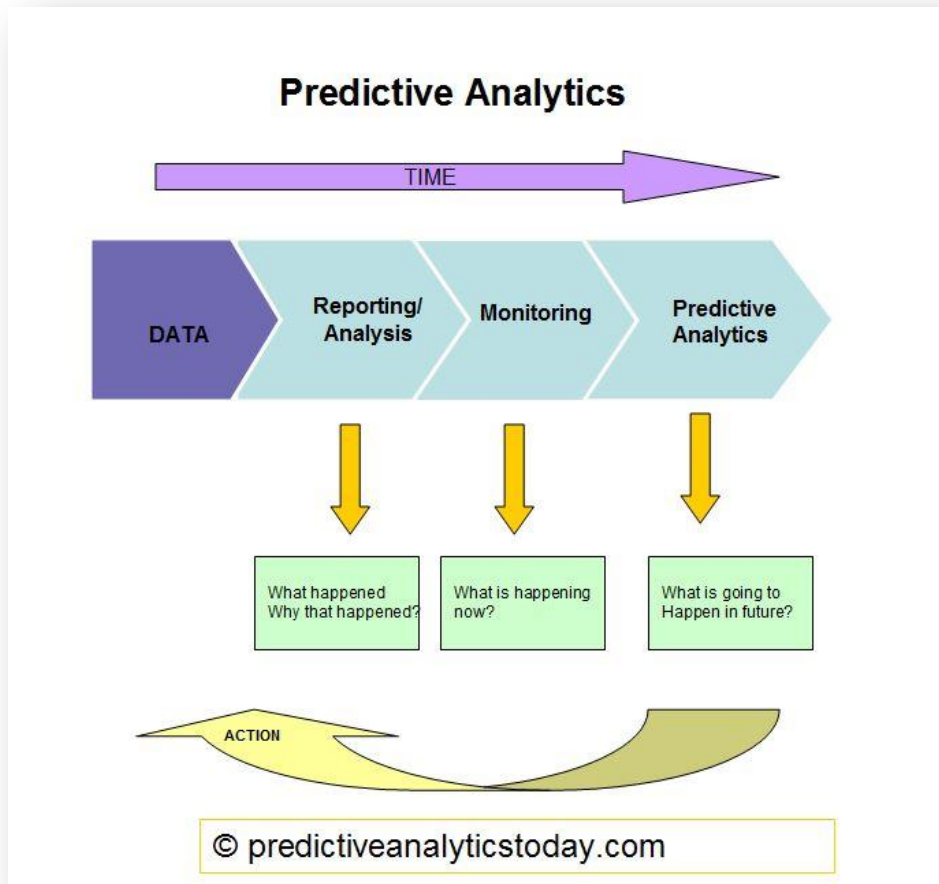
- First student Enter the Email-Id and Password That is admin .In this system static password is used. Student does not need to register.
- After that student will fill the their 10th class information. if the student want to skip the 10th class information then they will skip and directly fill the 12th class information.
- if the student done diploma then they will fill the diploma information.
- after that graduation post graduation information is filled by student.
- then student need to fill their personal skill, Technical Skill, Extra Curriculaum Activities, Achievements.
- on these data prediction analysis is applied and system suggest the career option based on their data
- Following is the flow chart of system

FLOW DIAGRAM



METHODOOGY

PREDICTIVE ANALYSIS:



PREDICTIVE ANALYSIS PROCESS:

Process involved in Predictive Analytics

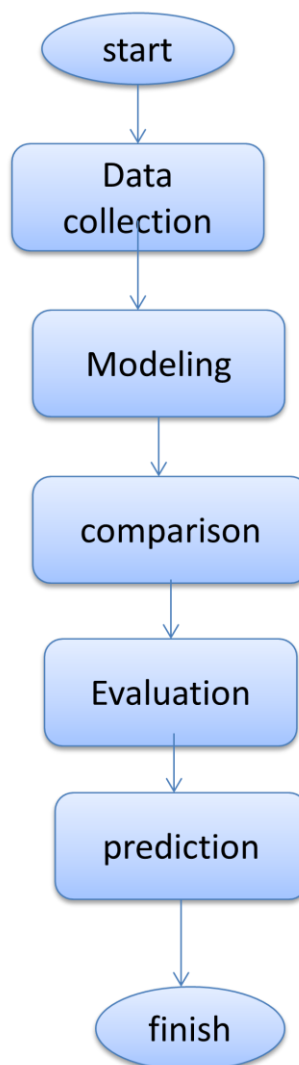
- 1. Project Definition:** Identify what shall be the outcome of the project, the deliverables, business objectives and based on that go towards gathering those data sets that are to be used.
- 2. Data Collection:** This Is more of the big basket where all data from various sources are binned for usage. This gives a picture about the various customer interactions as a single view item.
- 3. Analysis:** Here the data is inspected, cleansed, transformed and modelled to discover if it really provides useful information and arriving at conclusion ultimately.

4. Statistics: This enables to validate if the findings, assumptions and hypothesis are fine to go ahead with and test them using statistical model.

5. Modelling: Through this accurate predictive models about the future can be provided. From the options available the best option could be chosen as the required solution with multi model evaluation.

6. Deployment: Through the predicative model deployment an option is created to deploy the analytics results into everyday effective decision. This way the results, reports and other metrics can be taken based on modelling.

7. Monitoring: Models are monitored to control and check for performance conformance to ensure that the desired results are obtained as expected



CONCLUSION

Career Guidance System is an important for the student. The opportunities provided by this e-medium are immense and many students can make use of this medium to choose a career more appropriate to their skills. In today's competitive and technology driven world, with innumerable options available, the student is generally confused on choosing the right or more suited career.. Keeping the above in view, the proposed system will the ability to connect to various students and help them to select most suited career. To conclude, the objective of designing this system is to a help to select best career .The proposed system currently deals with guiding students in a direction that is right for them i.e. to select a proper career path depending upon the present skill sets and mental abilities. But this is only for academic subjects. The plan for future is to expand this system by including vocational subjects as well. It may be reiterated that at this juncture our objective is entirely on academic subjects and not on vocational subjects as these arise from an individual's liking and would need further improvisation on the model proposed above.

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