AN EXPERT SYSTEM FOR CAREER COUNSELLING USING CLIPS

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ABSTRACT

The following work presents the design of an expert system that aims to counsel a senior secondary student to decide his career path on the basis of his academics and extra-curricular interests. Counseling plays a vital role in shaping of one's future, and also this practice works as a guide for an un-disputed and stress free career. Hence helping to produce a favor to the humankind. Initially it was not properly taken into practice due to many causes like high fee demand by the counsellor or it works only as a brand advertisement. CLIPS language is used to design our expert system. It analyzes the capabilities of the student and provides with a best possible career path for achieving a vivid coming times.
Keywords: Artificial Intelligence, Expert Systems - CLIPS, Student Counselling

1. INTRODUCTION

Computer based techniques are progressively used to enhance the living standards and to reduce the complexity. Artificial Intelligence (AI), a field of Computer Science concentrating upon developing machines that can be considered as an intellectual in human society. The capacity of this technology to make shrewd machines has charmed people since last 50 years. Scientists are making frameworks which can imitate human thought, comprehend discourse, beat the best human chess player, and incalculable different accomplishments never before conceivable. Discover how the military is applying AI rationale to its hello there tech frameworks, and how sooner Artificial Intelligence may affect our lives. Reliance on the human master can be limited if his/her skill can be exchanged into a computer framework. The proposed framework for managing the student counselling system is a specialist framework. A specialist framework is a framework that utilizes human learning caught in a system to tackle issues that normally require human skill. Master framework looks for and uses significant data from their human clients and from accessible learning bases all together to make proposals. With the master framework, the client can communicate with a machine to tackle a specific issue. This can happen in light of the fact that the master framework can store heuristic information. The advancement of master framework is actualized in CLIPS programming condition (C Language Incorporated Production System). This programming instrument is intended to encourage the advancement of programming to show human information or aptitude for therapeutic treatment. Clasps program is utilized by reason of the adaptability, the expandability and the minimal effort. The human psychology is a science of behaviour and mind, including conscious and unconscious phenomena, as well as thoughts which aims to understand individuals and groups by establishing general principles and

researching specific cases, enabling us to take in more about the encompassing world than we do with any of the other four detects.

2. THE PROPOSED EXPERT SYSTEM

This proposed system was developed for providing a counselling session to the students to let them know the best possible ways and best possible career options they can pursue in near future.

2.1 The functionality of the proposed system is given below:

This career counselling expert system performs the function of counselling a 10th or 12th class student by asking him several questions like his hobbies, personality, area of interest, academic background and other relevant questions that will define his personality and area of interest which he can choose as a career for the betterment of his future. It's a system that provides with Career opportunities as an advantage. It saves the facts and reach on the conclusions on the basis of the answers given by the user for each case, which are already saved in data-base. It processes the data-base in order to extract rules, which completes the knowledge-based system and gives the best results as per the counselling.

2.2 User Interaction:
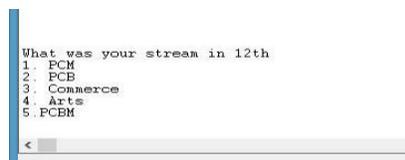
Figure-1

The user to system interaction is based on question answer session where the user has either to give the input as yes or no or the choices that are given to him for his mental analysis.
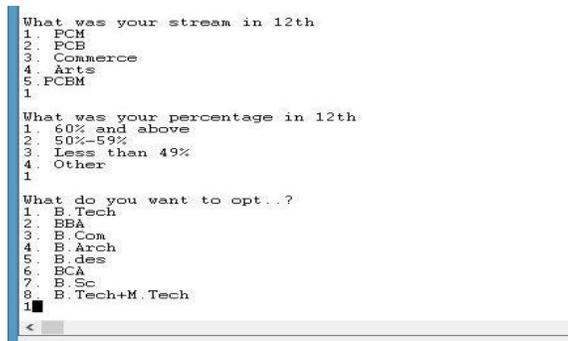

Figure-2

The user is asked about his interests, academic background and also takes the evaluate his personality on the basis of his choices and gives the result as per the inputs given.The system finally guides the client for his future references of career choice or academic streams to be pursued. It finds the best result matching client's interest from the database and gives the output with full perseverance of path explained.

Figure-3

3. CONCLUSION

The application of student counselling expert system is very striking and has created a very considerable expert counselling system for effective counselling. The proposed system can help the clients in providing decisions support system, interactive training tool and advice. The system constitute part of intelligent system for the diagnosis of student psychology.

The article presented on expert system for psychological help on the basis of clients interest and academic exposure to find the best field for the client to pursue. As future work we will constitute the expert system to cover all the fields required for career counseling.

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