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A Study of Carrier Counseling Software for Scientific Purposes

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Abstract

A career advising system that allows students to look at a variety of job opportunities. There are numerous professional opportunities available after graduation. It also lists a variety of universities, allowing students to search for colleges depending on the courses they provide. There is also an eBooks page on the system. The user can read about the application's career advice options here. Even after graduation, some students are expected to study abroad or obtain a master's degree from a top university. Through chat, voice call, or video conference, we can give them with a link to the test as well as additional education and one-on-one counselling. In addition, we will offer career counselling to individuals or students who are dealing with mental health concerns such as depression or anxiety in order to improve their overall health and outlook.

This application will serve as a public platform for all students and counsellors who require one for their work. Furthermore, we provide a feature for manually selecting the language for improved interaction between the counsellor and the student; this allows students from underserved areas or with different mediums such as Hindi, Gujarati, and others to choose their language and conduct the counselling session accordingly. There will also be a blog where students' achievements and experiences as a result of counselling will be shown or shared (Success Stories).

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Keywords: *Data Compression, Inference Web, UTAUT, Bayesian Network & E-Learning, Firebase Cloud Messaging*

INTRODUCTION

The most concerning difficulty that students face nowadays when trying to choose a career is a lack of understanding about various courses and institutions that might cause complications when trying to choose a vocation. The most common difficulty among young people nowadays is that they are constantly perplexed by the plethora of possibilities and professional paths that are available; it is rather confusing for many of our pupils to date. However, the majority of students are unaware of the basic field and career influences. Students in high school are currently making job decisions based on family, peer, and cultural influences. More importantly, many of them drop out of school after class ten since they are not given any guidance. In addition, there is a significant disparity in student aspiration and awareness of occupational options.

Related Work

The study's author [1] proposes a novel method called Inference Web. It's a framework for explaining Semantic Web reasoning. It employs Semantic Web technology as well as industry-accepted standards. It also includes a number of tools to help you create detailed explanations. "Proof" is a reasoning job in IW that is saved in the Proof Markup Language (PML) proof interlingua. This paper has two advantages: (i) transparency and (ii)explanation interactivity. The limitations of the paper include I scalability and (ii) sustainability.

The author of this study [2] talked about data compression. Data compression is a method of reducing data size. It is a method of reducing the size of text, audio, and video files. I This study also includes Huffman Coding (ii) Shannon-Fano Coding is a type of coding that employs the Shannon-Fan (iii) Coding for Run Length (iv) Arithmetic coding is a form of coding used to represent numbers.

Some of the advantages of this paper are as follows: I Saving on storage space (ii). Cost-cutting The following are the paper's limitations: I Difficult (ii) Transmission Errors

The author of this paper [3] discusses Bayesian Networks in the context of E-Learning. E-Learning is defined as contact between a student and a teacher via the

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internet. The Bayesian Network, also known as the Bayes Network, is a type of neural network. It can be used for a variety of tasks such as I diagnostics, II prediction, III anomaly detection, and IV automated insight. The benefits of reading this article are I time savings and (ii) career exploration. One of this paper's limitations is its lack of physical presence.

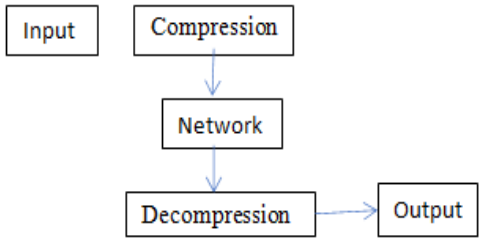


Fig 1: Compression & Decompression

UTAUT

UTAUT. UTAUT is an acronym that stands for Unified Theory of Acceptance and Use of Technology. It is a model that is used to predict behavioural outcomes. Its goal is to explain users' intentions to use an information system as well as their subsequent usage behaviour. This paper has the following advantages: I Reliability. This paper's limitations are (i)complexity This study's author [5] focuses on Firebase Cloud Messaging.

The cloud messaging service, which is one of the most powerful services available, is used by the majority of people. It has the backing of Google. It's a cross-platform communication platform. As a result, you can send messages for free. A benefit of this paper is I Cloud Messaging. Some of the paper's limitations are as follows: I restricted the querying capability.

METHODOLOGY

InferenceWeb

It's a framework that explains the Semantic Web reasoning task. It employs Semantic Web technology as well as industry-accepted standards. It also includes a number of tools to help you create detailed explanations. The term "proof" in IW refers to the task of reasoning. Proof Markup Language (PML) is a markup language-encoded proof interlingua. It also contains a set of techniques for effectively presenting explanations and dealing with follow-up questions.

Data Compression

It is the process of compressing text, audio, and video files without losing any information. This method can be used to conserve storage space. It is used in text documents, database tables, and multimedia fields. The abbreviation for Unified Theory of Acceptance and Use of Technology (UTAUT) is Unified Theory of Acceptance and Use of Technology. It is a model that predicts behavioural

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outcomes. Its goal is to explain why and how people want to use an information system. It is made up of four major parts: I Results Expectancy (ii) Effort Expectancy (iii) Social Influence (iv) Facilitating Condition Performance expectation, effort expectation, and social influence are all direct predictors of usage intention and behaviour. The Facilitating Conditions have a direct influence on user behaviour. Gender, age, experience, and voluntarism are all factors to consider.

The theory included the following components: social cognitive theory, diffusion of innovations theory, motivating model, theory of planned behaviour, model of personal computer use, a combined theory of planned behavior/technology acceptance model, technology acceptance model, and reasoned action.

COMPARATIVE STUDY

Table 1: Methods Used

Sr. No.	METHOD	PROS	CONS
1.	Inference Web	Explanation interaction	Scalability, Maintainability
2.	Data Compression	Less disk space, Faster file transfer, Faster writing and reading	Effect of errors in transmission, Added complication
3.	UTAUT Model	UTAUT has four key constructs i.e. performance expectancy, effort expectancy, social influence, and facilitating conditions	Estimated models are not in the exact form as the original UTAUT model and as a result, the explained variance can be affected.

Table 2: Existing V/S Ours

Sr. No.	EXISTING	OURS
1.	Some of website provide counselling after class 10 or 12 or graduation	We will provide counselling after class 10 or 12 or graduation also we will provide counselling for abroad
2.	They does not provide health care counselling	We provide health care counselling

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3.	Many existing website ask for the payment at the starting	We will take payment once students is satisfied from results
4.	Some of the student don't get what counsellor what to say	We will provide two option for communication one in English and other in the students regional language

CONCLUSION

In this review, we looked at Inference Web, Data Compression, and UTAUT. The results of this comparison show how various tactics differ in terms of performance and complexity. In the future, we may add a job referral option.

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