

# Information Technology for Career Guidance

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## Abstract

*According to the title, today's immature generation is frustrated by depression over their future profession. They really cannot make the right decision to regrade their career. Many students in our nation are subjected to a great lot of pressure, particularly from their families and professors, in terms of their career choices and academics. In many circumstances, students find it difficult to freely voice their concerns about the pressure they are under, even with their parents. So, this is why I came up with a solution for that; I took the survey of students between the age of 14 and 16 where we just keep observing their skills and what unique talent they have or in which area they are the best. After that, I provided the right courses or information related to their field where they are best, so as to make it easier to grow their skilled field.*

**Keywords:** National Crime records Bureau, HTML, Career opportunities, CSS, SQL, Internet, Information technology and Communication

## INTRODUCTION

Every hour, one student commits suicide in India, with 28 such suicides rumoured daily, consistent with knowledge compiled by the National Crime Records Bureau (NCRB). According to the latest suicides data, in 2020, the number of such deaths is increased by 21% compared to 2019. According to a recent public survey, 16% of academy scholars have been diagnosed with depression, with several being diagnosed for the first time. Over the 90% of persons have an identifiable folie, usually depression or misuse disorder. Men are particularly in danger of committing suicide. College-age men are 4 to 6 times additionally possible to die by suicide than girls. Girls are 2 to 3 times additionally possible to aim suicide victimization by nonfatal means than men. All the suicides are not only because of failure in exams. In the majority of cases, other causes trigger student suicides [1, 2].

To prevent all this, we should give the right direction to the students. But how should we do that? It is really hard to focus on every student and keep their data in any paper or a file. Right now, the internet is the most useful technology of modern times which helps us not only in our day-to-day lives but also in our professional lives. For academic functions, it is widely needed to gather data and to try and do analysis or raise the data of varied subjects [3]. The internet plays a really important role in education. It is a little question that during this era, everybody prefers Google for his or her queries, problems, or doubts. It contains a wealth of information that may be searched at any time. The net has introduced enhancements in technology, communication, and online recreation. In short, using the internet we can share lots of information, we connect with everyone, we contact or communicate with them; and for all this, we use Information Technology as a bridge. Using the internet and IT, we connect them and give them proper guidance or solution to the problems. We make a website that takes the student info, study it and then give back proper guidance within. That helps the students to make more reliable decisions for their career [4].

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## **PROBLEM STATEMENT**

Many students return to varsity with a previous history of mental state difficulties or treatment. Environmental stressors together with a predisposition to expertise psychological state issues could increase the chance for suicide. Some reasons that pupils get panic [3]:

### **No Idea about The Stream**

The average age of India is simply 27 in 2020, which implies that the bulk of the country can comprise young students and youth. Even as the clock strikes twelve, the country is in the grip of a state crisis. The main reason for this disadvantage is that there is a large number of young people graduating from high schools and colleges each year, and there are numerous new career options and job roles emerging in a variety of industries. However, they do not even comprehend these new career choices. A recent survey on career possibility awareness among Indian students has unconcealed that a staggering 93 of the scholars aged 14 to 21 was conscious of simply seven career choices though there are over 250 differing types of job choices out there in India [5].

### **In the Wrong Stream**

Sometimes students choose the career stream by observing what other students or friends are taking it. Students just follow other students that what others are doing, they do not even follow their passion. Students feel bored during class or they are not focused or concentrating on their studies.

### **Forced to Choose Stream**

In our country, generally many students succumb to a very high amount of pressure, especially from their family and teachers in terms of their career choices and studies. Sometimes parents force the student to choose a career or stream which is best in the current scenario? They cannot observe whether their child is capable of that stream or not? Because the stream is trending and others are following that trending stream, that is why they put pressure on the student [6].

### **Lack of Communication**

This is one of the biggest problems in today's young generation. In many cases, it so happens that the students find it hard to freely express their concerns about the pressure they are dealing with, even with their parents. They cannot freely talk with their parents, teachers, or mentors [7].

## **METHODOLOGY AND SOLUTIONS**

### **Developed Basic Skills**

When the students reach school age, they must have developed all of the fundamental skills required for their role. Skills like soft skills, communication skills, collaboration skills, critical thinking, and problem-solving skills. For that, we need to take 1 h of daily school time [8]. That means, we teach the student how to communicate, how to work in a group, how to think out of the box. We developed all these skills at school time or at the age of 12 to 14. Side by side we create a profile on a website with all student's details, generate Student Unique ID and password and give it to them. So, they and their parents can easily access the website and see students' progress. Teachers can update information about student's skill and their achievements.

### **Observing and Identifying Skills**

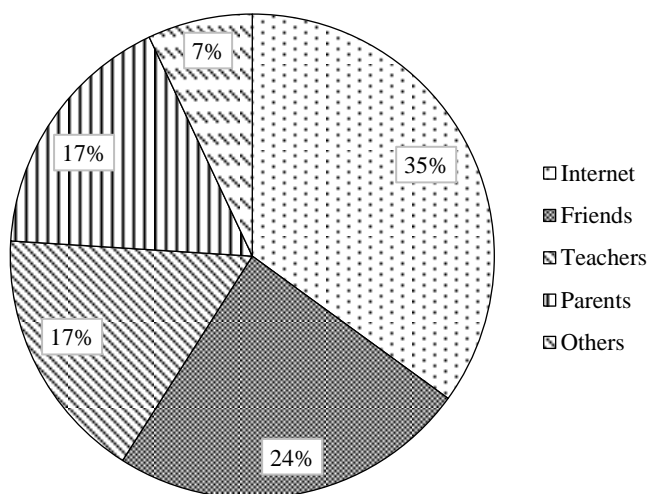
When students complete their 12th class then we share a Google form with them. In the Google form, we mention questions related to what they wanted to be in the future. As per students' responses, we take a sample exam-related field they choose. If they give the best result in the exam, then we put them into that field that they wanted to be or if they are unable to crack the exam then we check their previous records and based on that we give them a suggestion about what they are in best and what career field should they try. The exam is conducted based on the basic concept of the field.

### ***Make Them Perfect***

After assigning students to appropriate fields, we divide their part into three stages:

1. Stage 1 (Basic): where we just give them all basic ideas about the field and all concepts. It is like the training phase where we train them. We just assigned assignments and tasks and we just observed how much time they take to complete and the way he or she solves the assignment and task. We also take the test based on the assignments and tasks by the end of the month.
2. Stage 2 (Intermediate): In this stage, we make the portion a little bit difficult. We introduce them to outside world technologies. We also suggest that they participate in online competitions related to the field. We also assigned a mini project so that it will build confidence in the students.
3. Stage 3 (Expert): In this stage, we have to make them perfect by giving them complex problems. We also assigned live projects and thinking level at industry level. It helps in to find better job opportunities for them.

To know more about these stages, here we see one example related to them. I took a survey of students who just passed their 12th. In survey, according to the student's responses, 8% of the students have not yet decided on their future or which career field do they want to pursue and 92% of the students decided on what they wanted to be in the future. The below pie chart shows from whom or where they get the idea or information about their career field which they decided. We can see that 35% of students choose their stream from internet guidance, 24% from friends, 17% from parents and teachers, and 7% from books and others (Figure 1).



**Figure 1.** Means that helps to choose the streams of student's choice.

As per the chart, most students follow the internet, but if we look closely, more and more students follow the advice of their friends, parents and teachers. So, we take an exam based on the stream they have chosen. If they are performing well or give us nice results then we continue with their stream, otherwise we contact them or talk with them about why they choose the stream and give them a nice suggestion or bespoke solution. This whole method from taking surveys to communication and finding their right stream takes 3 to 4 months. Once the students get into their favorite stream or proper stream which they are capable of, then we move toward our stage 3. We suggest them colleges upon their percentage and marks. Once they get into the college then we start with basics about their stream where we will give them basic knowledge about their stream. We give them assignments and tasks on daily basis and at the end of the month, we take the exam based on assignments as we discussed above in stage 1(Basic). Then we move stage by stage as we discussed earlier. This will boost their confidence and make them perfect in their stream.

## WEBSITE INFORMATION

This website is easily accessed through any device. We developed a website using HTML, CSS, JS and for the back end, we use the python Django framework. Python is one of the simplest languages which will be used for website development. It is easy to learn, logical, and develop websites that are secured, scalable, and budget-friendly. One of the best advantages of the python framework is that we do not have to download or install anything on your device while making a website. As a result, we employ SQLite or My SQL, Oracle, or any third-party programmes such as MS SQL or Google Cloud Spanner [6] for databases. Students and parents can access the website through a mobile device like a cell phone or laptop. The student profile is created during school time when he is in 8th or 9th std on the website. We share students' unique IDs and passwords with them. The great thing about this website is that we can see all activities and achievements done by students; so, this website can be used as a CV in the future for a student.

## CONCLUSION

Today, every fifth person in India is an adolescent as their age is between 10 and 19, and every third young person's age is between 10 and 25. So India has one of the largest youth percentages. They need to give the right direction to their career. So, this website would be helpful to find their career. This website helps students to set their life goal and gives proper way to reach there. So might be, they do not get depressed about their future and hope they find the right career.

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