

# Student Career and Personality Prediction

Prathmesh Bhilegaonkar<sup>1</sup>, Shantanu Burle<sup>2</sup>, Darshan Waykar<sup>3</sup>, Om Chaskar<sup>4</sup>

<sup>1,3,4,5</sup>IT Department, Pimpri-Chinchwad Polytechnic, Maharashtra, India.

<sup>2</sup>Professor, IT Department, Pimpri-Chinchwad Polytechnic, Maharashtra, India.

## How to cite this paper:

Prathmesh Bhilegaonkar<sup>1</sup>, Shantanu Burle<sup>2</sup>, Darshan Waykar<sup>3</sup>, Om Chaskar<sup>4</sup>, "Student Career and Personality Prediction", IJIRE-V4I02-539-543.

Copyright © 2023 by author(s) and

5<sup>th</sup> Dimension Research Publication.

This work is licensed under the Creative

Commons Attribution International License

(CC BY 4.0).

<http://creativecommons.org/licenses/by/4.0/>

**Abstract:** On the way of success student faces a lot of problems, But the main problem student has to face is what field or way to choose the success. If someone wants to be successful he/she needs a proper guidance, this guidance can be in the form of parents, teachers, etc. This project gets the student attraction and predicts the write career to choose for being successful. This web application is whole based on students but if someone else want to get the prediction from the application they can also have the experience of advance technology of this online education world.

## I.INTRODUCTION

Today we are in the generation of online media which can also be called as a fast generation in which no one wants their important time to be wasted. This generation also need a proper guidance as they are focusing on the more salary not more skills. This getting them into the phase of choosing their accurate career option.

This process can have tow ways, First if you choose your career option correctly you will achieve your all life goals easily and have a proper mind set of learning in your life, Second if you get wrong guidance or choose the career option incorrect then you will have to struggle learning that field or have to drop down the whole year.

With the 97% accuracy this web application predicts your career option and have a time saving technique in our life. Building this application was easy except linking of database to our project. We used all the concept of what we learned and some of with the help of google. We used HTML, CSS, JavaScript for Front-end. PHP, Python(Flask) for Back-end. For machine learning we used Python(K-NN algorithm).

This web application is time saving, accurate, user friendly, simple, and can be used by all aged people. User friendly interface gives user a nice experience. Having less interruption while using the application makes simple for user to get into the app more often.

Guidance is more important for the students in the important phase of their life. 90% of students opt for a wrong career path due to a lack of career guidance and the persisting gap between skills and aptitudes. This thing makes all students having more depression and can get them into trouble. So they want proper guidance in their life, having a guidance from the teacher and elder can be more convenient but some time it is more time spending for both you and them. Having someone who can guide you 24/7 is needed for our generation which makes their work more faster. They can have a guidance whenever they want without wasting of time.

For the prediction we used the Machine Learning. Machine learning is a growing technology which enables computers to learn automatically from past data. Machine learning uses various algorithms for building mathematical models and making predictions using historical data or information. Currently, it is being used for various tasks such as image recognition, speech recognition, email filtering, Face book auto-tagging, recommender system, and many more. A Machine Learning system learns from historical data, builds the prediction models, and whenever it receives new data, predicts the output for it. The accuracy of predicted output depends upon the amount of data, as the huge amount of data helps to build a better model which predicts the output more accurately. In our project we used K-NN model of machine learning.

## II.MATERILS AND METHODS

### Application Details:

Application Name:

Student Career and personality prediction

1. Our project will have simple graphics interface through the Web application.
2. User will get option to login or register new user by entering basic details like name, email id , phone number etc.
3. After logging will have the home page containing information about fields also the page is containing the start exam button to start the exam.
4. After clicking on that button user will get to give the exam and choose the option.
5. by the options of the user the system will check what field is suitable for the user and system will predict that field.
6. After that if user want he can find out more info like collages regarding to their field so that he can do further process of finding the collages easily.

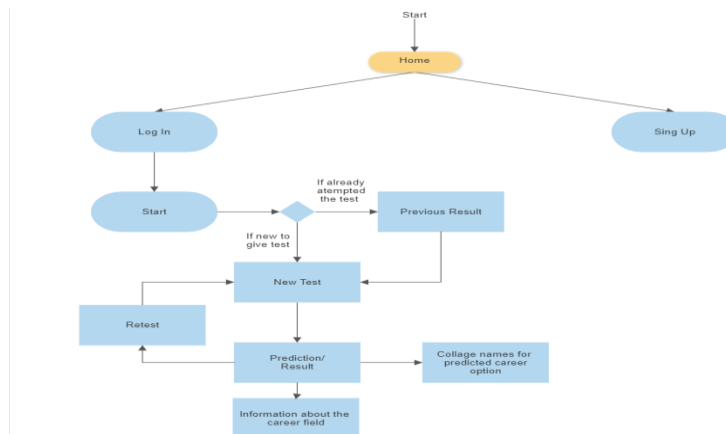
## Student Career and Personality Prediction

Hardware Requirements: Smart phone/Internet Connection

Supplementary Software: None

Price: Free

### Working:



With the simple working we given user first a login or sign-up page previous user can login or if the user is new then he can sign-up to the web application. Further they will land on the home page in that they will get to know about what are the career options and all, they can get the information of single on of them. On that page user is having one start exam button by clicking on that user will land of confirmation button after that the test will start test is having 17 questions in total. By giving all answers the system will check the user interest, by the interest system will predict the proper career option. User can see the collages available for that career option also.

### III. RESULT

The Student Career and Personality Prediction web application has the potential to significantly increase the convenience and accessibility of Prediction for individuals. By providing users with a simple and intuitive way to get their way of success from home.

The application will also provide users with valuable information on the career fields and the collages of their choice, so the can easily do the further process in the life. This can help to educate and engage parents also to know what their child wants to do in the life.

If guidance were made online, it could potentially increase the convenience and accessibility of education for individuals. Online guidance platforms could allow users to get their career option by giving a simple test, this test doesn't contain any of the study to give it, this test is simply a questions based on what you about the the particular field.

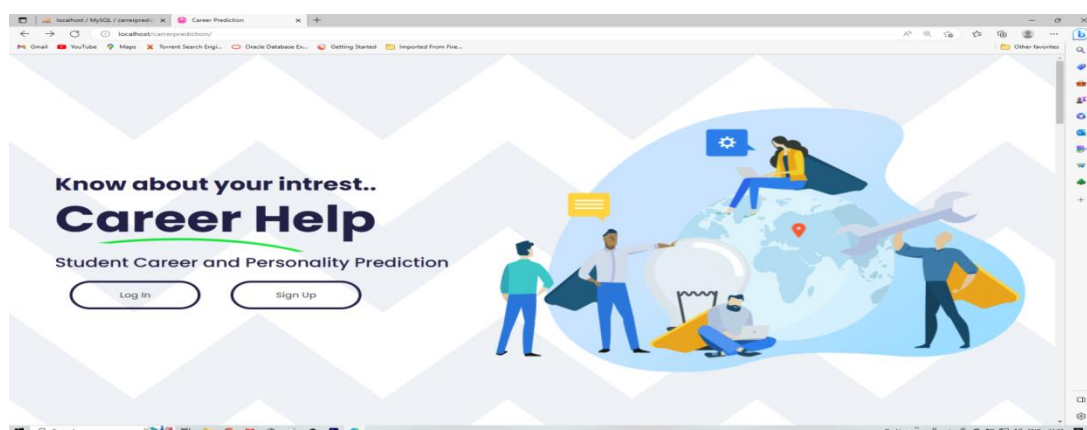
Online guidance platforms could also make it easier for school students to choose the life goal, as they are on their most important part of the life.

There are also potential drawbacks to Student Career and Personality Prediction. One concern is that online prediction platforms may not be accessible to everyone, particularly those who do not have access to the internet or who are not comfortable using online services. In order to ensure that online prediction is inclusive and accessible to all, it may be necessary to provide additional support and resources for those who may face barriers to using these platforms.

Overall, while online prediction could offer many benefits, it is important to consider the potential drawbacks and to ensure that these platforms are developed and implemented in a responsible and ethical manner.

### OUTPUT SCREENSHOTS

#### Log-In and Sign-up page:-



## Student Career and Personality Prediction

The screenshot shows the registration page of the 'Career Help' application. The page has a light blue and white geometric pattern background. On the left, the text 'Know about your intrest..' is followed by 'Career Help' in a large, bold font, and 'Student Career and Personality Prediction' below it. There are 'Log In' and 'Sign Up' buttons. On the right, there is a registration form with fields for 'Email address' (containing 'abc@gmail.com'), 'Password', and 'Confirm Password'. A 'Sign Up' button is at the bottom of the form. A yellow banner at the top of the page reads 'Account successfully registered, kindly login.'.

The screenshot shows the login page of the 'Career Help' application. The layout is similar to the registration page. On the left, the text 'Know about your intrest..' is followed by 'Career Help' in a large, bold font, and 'Student Career and Personality Prediction' below it. There are 'Log In' and 'Sign Up' buttons. On the right, there is a login form with fields for 'Email address' (containing 'Enter email') and 'Password' (containing 'Password'). A 'Log In' button is at the bottom of the form. A yellow banner at the top of the page reads 'Account successfully registered, kindly login.'.

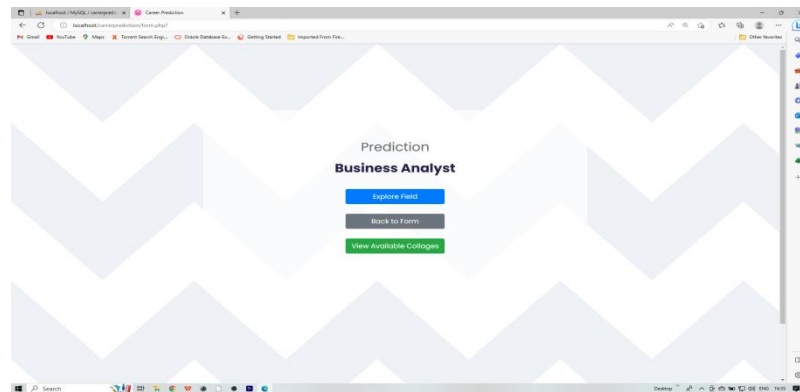
### Start Exam Button:-

The screenshot shows the 'Start Exam' page of the 'Career Help' application. The layout is similar to the previous pages. On the left, the text 'Know about your intrest..' is followed by 'Career Help' in a large, bold font, and 'Student Career and Personality Prediction' below it. There is a 'Start' button. On the right, there is a large illustration of a globe with people working on it, symbolizing global collaboration and career development. A yellow banner at the top of the page reads 'You have successfully Log In. Click start to begin'.

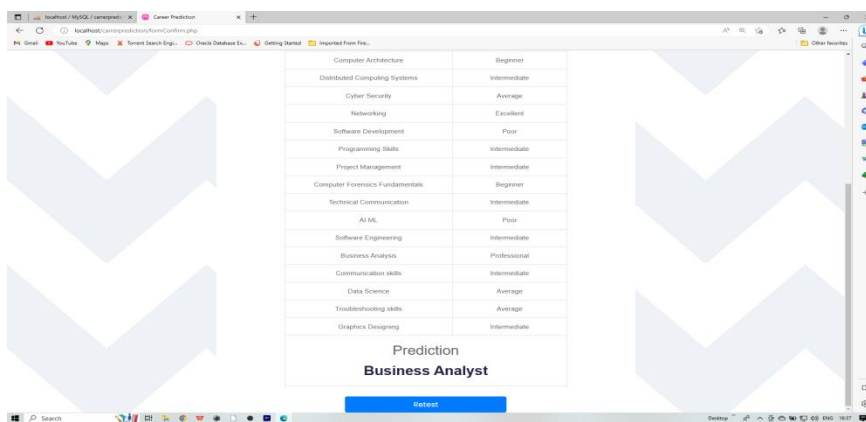
### Questions in exam:-

The screenshot shows the 'Assess Yourself' page of the 'Career Help' application. The page has a light blue and white geometric pattern background. At the top, the text 'Assess Yourself' is followed by 'Intrest in Graphics Designing'. Below this, there is a list of radio buttons for selecting the level of interest: 'Not Intrested', 'Poor', 'Beginner', 'Average', 'Intermediate', 'Excellent', and 'Professional'. At the bottom, there are 'Previous' and 'Submit' buttons. A yellow banner at the top of the page reads 'You have successfully Log In. Click start to begin'.

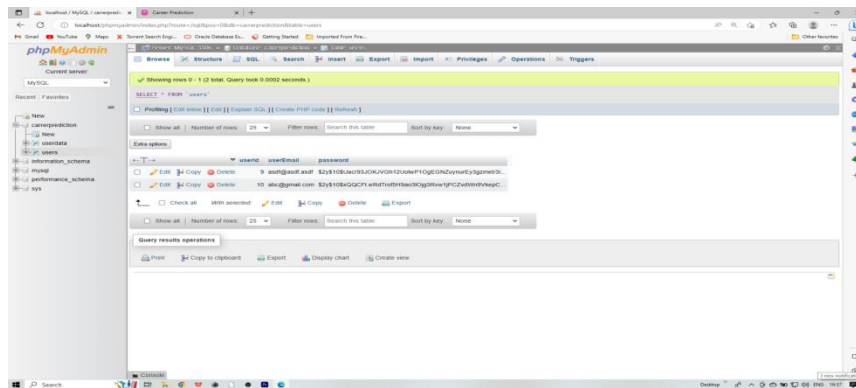
## Predicted career:-



## If the user given the exam previously:-



## The data-base:-



Preparation of Manuscript			
Sr.no	Paper name	Author	Method Proposed
1	Student Profile & Personality Prediction using Data Mining Algorithms	Avnish Kumar Akshat Gawankar Kunal Borgem Mr Nilesh M Patil	This is a simple web based application that helps to give a prediction about the student career. Using this system create and login to the account and give the test, there are 15 questions in the test by that the career option will be predicted
2	Educational Data Mining: A Review of the State-of the-Art	Cristóbal Romero	there is a great variety of educational Systems those helps student for learning object repositories, concept maps, social networks, forums, educational game environments, virtual environments, ubiquitous computing environments, etc.

3	Classification and Prediction Based Data Mining Algorithms to Predict Slow Learners in Education Sector	Parneet Kaur ManpreetSingh	Data mining has attracted lot of attention in the research industry and in society as a whole in recent years. Data mining, also called Knowledge Discovery in Databases
---	---	-------------------------------	--

#### IV. CONCLUSION

In the online world people want fast result in less time they don't want to waste their time. This application gives you more accuracy so that you will get more correct prediction of life. By using this application you can focus on a particular goal of field making you more easy to choose further collages and career option. This web application provides service to any user who has network access and devices to access the web application.

Without focusing on the unwanted field student can also learn new thing in that time of their fields. As the web applications most users are 16-21 years old we provided most handy experience to the user so that they can easily get what they want. This application will be needed to everyone in future.

Our project has a motive to build the more user friendly web application so that every student can give a try to the online media or a new technique of guidance. Coming up with the 97% accuracy we predicted most accurate result also. With the less complex the site can be used by every age group. Predicted fields can be compared with collages and more information can be gathered. Also by the data we can get to know what is the mind set of today generation about the career. We used machine learning K-NN model and MySQL data base for the very important role

#### References

1. "Student Profile & Personality Prediction using Data Mining Algorithms" (IJARIIE-ISSN(0)-2395 4396).
2. "Proceedings of 2015 Global Conference on Communication Technologies" (GCCT 2015)
3. "2018 fourth International conference on computing communication control and automation" (ICCUBEA) , (Rangnekar 2018)".
4. Crist'obal Romero, Member, IEEE, and Sebasti'an Ventura, Senior Member, IEEE, "Educational Data Mining: A Review of the State of the Art " VOL. 40, NO. 6, NOVEMBER 2010.