Visualization on Career Path Recommendation using R programing

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Abstract: In day today's life students are dealing with many problems. One of them is that they are not able to make right decision regarding choosing their career path This research paper includes real time data which is collected from survey by making Google form from dataset. According to a previous survey, which was conducted across 33 countries, it was concluded that nearly about 50% people felt they had chosen wrong career path .It shows that they are not seriously familiar with their decision making process. This investigation process shows that the student lack basic knowledge and need counseling regarding what career to choose after completion of their studies The research paper intends to guide and direct students in picking their right career path. This proposal helps student in choosing right career path depending on their area of interest,willinginess for particular profession etc. We will be dealing with different data visualization techniques in order to draw a conclusion.

IndexTerms – career choice cause, visualization technique

I. INTRODUCTION

Nowadays, students are dealing with many problems in choosing their right career path in life. There are many factors that affects students in deciding right path such as skills, knowledge, area of interest and environment. Numerous students settled on wrong choice on choosing their profession because of the absence of experience, idea, help, willingness and persuasion from companions and relatives, guardians and speakers, or profession directing. From the above statistical data it has been seen that it is important to provide information to the student regarding courses, training and workshop that offers gathering of people. This provides basic approach to the student/people to select their right career path. As the human body is consisting of different personality type such as investigative, realistic, artistic, enterprising , social etc. The main purpose of these skills to provide certain ideas at the time of counseling and another part is psychological test which makes an interest and motivation at the time of decision making   before there were many techniques were used to provide the proper guidance or proper technique which have helped the people to choose their right career path.

II. LITERATURE SURVEY

Agarwala [1] has done the research on the student of management in India facing the problem in carrier choice with the help of their abilities, skills, competencies, interpersonal problems. The data on which they have analyses is collected from the DU students which contains both male and female data .after analyzing the data they have applied the T-test and provided the final solution which suitable for the student.

Osipow [2] have done the research on the basis of counseling technique and used programmatic approaches to career counseling like they have provided the different types of career related experience and used short course technique to deal with the specific aspects of decision making for career choice. which helps people to built good decision skill, observational skill, self-assessment and improved self-awareness to choose their career path

Moy [3] and team have worked on the factors which required for business graduate for career choice like medium-size enterprises (SME) they have taken the ideas from old business graduate and worked on that factor and provided proper solution to the new business graduates.

Mostafa al-Emran [4] have worked on the factors which social factor influence female in choosing their career they have done the survey in the collage where 70% are girls and 30% are boys and find some factors such as parents ,teacher counselors ,friends,job opportunities and given the solution to overcome all these problems so that they can help the girls to make their career in computer science.

III. DATA SET COLLECTION

To provide the proper solution to the all age people who are suffering from the specific problem i.e. career choice .which brings many variation in their life by which they were not satisfied So to help those all people who are not happy not happy with their career we have done the survey with the help of making Google form   and collected the real time data so that we can know from what problem they are not happy with their career and we provide proper solution to overcome that problem . the dataset which we have collected contains 13 questions and 100 responses the entry mainly get from pune .

Gender	Percentage in 12th	Stream you had in 12th.	If science than choose yo	If commerce than choose	Preferred subjects in Arts	Passion/hobby	Skill	Technical skills	Reason behin
Male	70-80	Science	PCM			Play Badminton and listen	Communication, listening,	Testing	personal satis
Male	60-70	Commerce		commerce with physucal e	History	playing games and dance	Athletics	Deployment team	personal satis
Male	70-80	Science	PCM				listening		personal satis
Male	80-90	Commerce		commerce with physucal education			Communication, Speaking		personal satis
Male	60-70	Science				to play basket ball and stud	Communication	Coding	personal satis
Female	70-80	Commerce		Commerce with maths		cooking food	Judgemental		peer pressure
Female	70-79	Science	PCM			dancing and speaking	Communication, Speaking		peer pressure
Male	70-79	Science	PCM			Writing	Communication, listening, Speaking, Judgemental		personal satis
Female	80-89	Science	PCMB			singing and reading books	Communication, listening, Speaking		personal satis
Male	70-79	Commerce		Commerce with maths		playing cricket and studing	Communication, listening, Speaking, Athletics		personal satis
Male	80-89	Science	PCM	Commerce with maths	Political science	Skating	Communication, Speaking	Testing	personal satis
Male	80-89	Science	PCM			to become a doctor	Communication, listening, Speaking, Judgemental		finance issue
Male	80-89	Science	PCM				Communication, listening,	Coding	personal satis
Male	70-79	Science	PCM		pcychology, Sociology		Communication, listening,	Analyst	personal satis
Male	70-79	Science	PCM	Commerce with maths	History	Music	Judgemental	Analyst	personal satis
Male	60-69	Science	PCM			Watching tv	Communication, listening,	Testing	personal satis
Male	60-69	Science	PCM			Gaming and football	Communication, listening, Speaking, Judgemental		personal satis
Other	Above 90	Arts	PCMB	commerce with physucal e	HUmanities		Communication		
Male	60-69	Science	PCM			To be a buisnessman	Other	Deployment team	personal satis
Male	70-79	Science	PCM		pcychology, History, Soci	Playing football,bike riding	listening, Athletics	Coding	
Male	70-79	Science	PCMB			Playing cricket, singing	Judgemental, Athletics	Analyst	personal satis
Male	60-69	Science	PCM	Commerce with computer science		Kuch nhi	Communication, listening,	Analyst	finance issue
Male	Above 90	Arts			pcychology		Communication, listening, Speaking		personal satis
Female	70-79	Science	PCM		pcychology, Political science, History, Sociology, HU		Communication, Speaking	Coding	family sugges
Male	80-89	Science	PCMB	Commerce with maths		Cricket	Communication, Athletics	Analyst	family sugges
Male	60-69	Science	PCM			Driving Jaguar	Speaking, Athletics	Analyst	finance issue
Female	Above 90	Science	PCMB			Chatting	Communication, listening,	Coding	personal satis
Male	80-89	Science	PCMB				Athletics	Coding	personal satis

FIG .1 COLLECTED DATASET

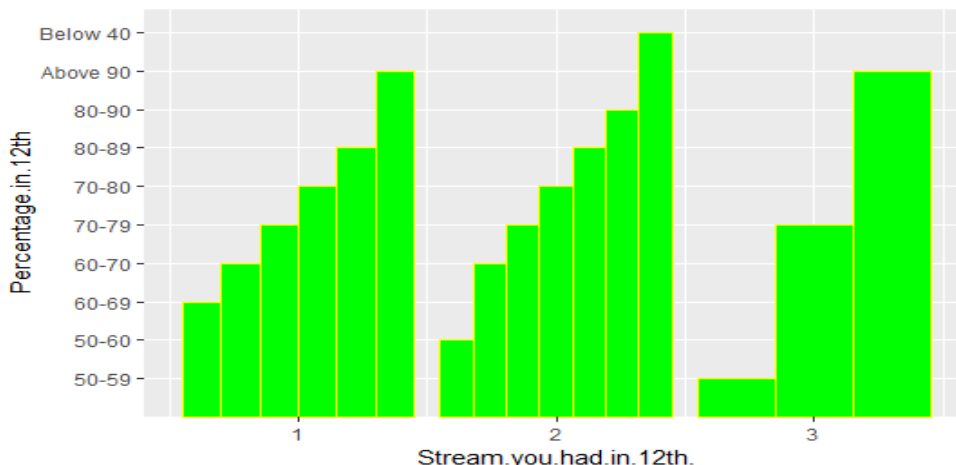## IV. DATA VISUALISATION

1. Bar graph

Fig 2.bar graph

According to the dataset most number of student are of category 1(science) than category 2(commerce) and category 3 (arts) the graph shows the relation of percentage and stream were highest percentage student belongs to category (1) science and less percentage is from category (3)arts.
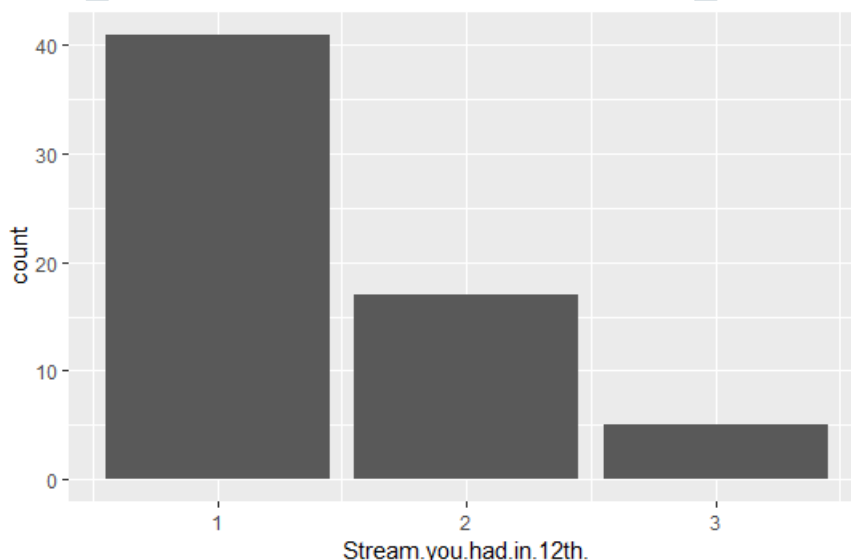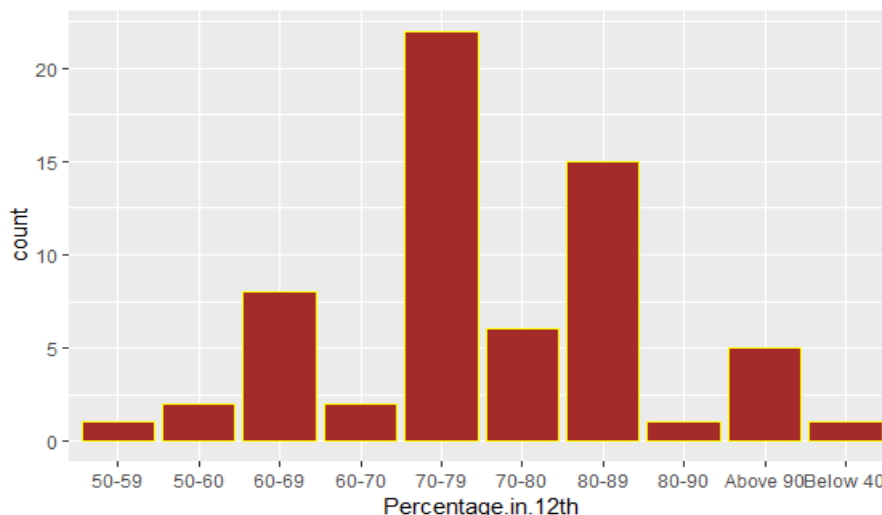
2.Histogam

Fig 3.

3.Bar graph

Fig 4.
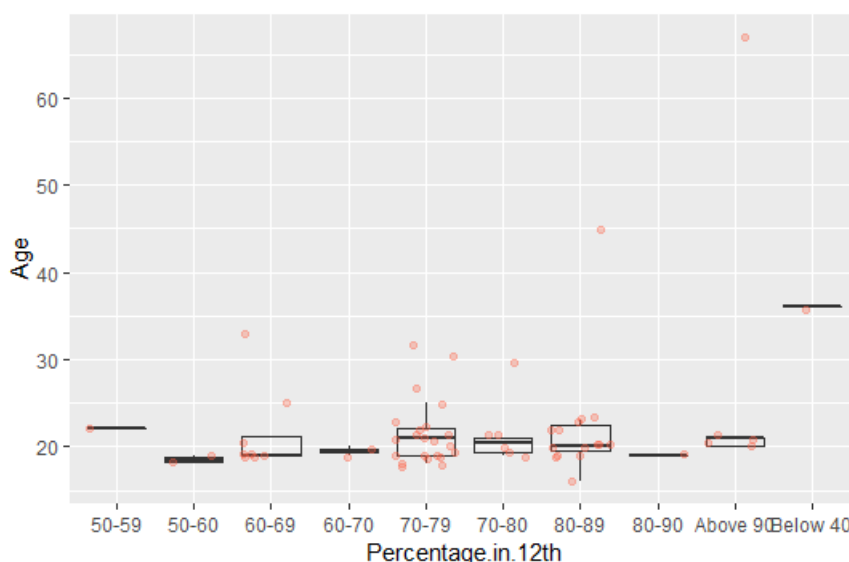
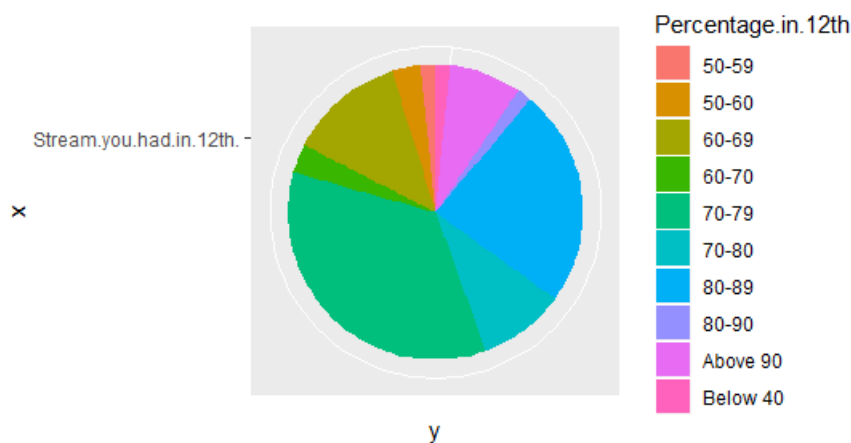### 4.Box plot

Fig 5.

5. pie chart

Fig 6.

V. OBSERVATIONS

From the dataset which was collected through Google survey form it has been seen that only 19 % of people were properly satisfied with their career which they have choose and 50% people are satisfied with their career rest 31% of the people were not satisfied with their career choice.The collected data shows 71% of people have chosen their career with their personal satisfaction and remaining people have chosen because of peer pressure,fianance issue and family suggestion.

VI. PROPOSED SYSTEM

The aim of this research paper is to provide right idea to choosing their career path with the help of conducting seminars where the large gathering can come and working on the factors which influence them in choosing their right career path with the help of conducting counseling so that it helps them to make right career

Another idea of this research paper is to make an app which provides all information regarding choosing their career and conduct the test for all subjects and skill test and then compare all the tests marks and skills than it provide right area of interest for which you are suitable also provide all motivational and career path choosing seminar videos which also helps them.

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