



**FINAL YEAR PROJECT REPORT**

**A PROJECT FOR MIDDLE AGE GROUP  
STUDENTS COUNSELING FOR FUTURE  
PREDICTION BASED ON MACHINE  
LEARNING**

**In fulfillment of the requirement  
For degree of  
BS (COMPUTER SCIENCES)**

**By**

**ABDUL BARI JAVERI  
MUHAMMAD TALHA**

**54096 BSCS  
54062 BSCS**

**SUPERVISED**

**BY**

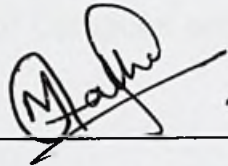
**DR GHULAM MUHAMMAD  
BAHRIA UNIVERSITY (KARACHI CAMPUS)**

**FALL-2022**

## DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

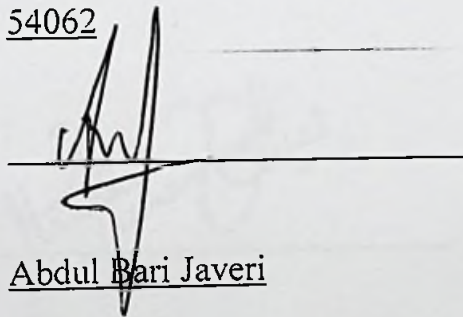
Signature:



Name : Muhammad Talha

Reg.No. : 54062

Signature:



Name : Abdul Bari Javeri

Reg No. : 54096

Date : 13 / 01 / 2022

The copyright of this report belongs to Bahria University as qualified by Intellectual Property Policy of Bahria University BUORIC P-15 amended April 2019. Due acknowledgement shall always be made of the use of any material contained in, or derived from, this report.

© Bahria University all right reserved.

A PROJECT FOR MPhil **ACKNOWLEDGEMENTS** **COUNSELLING FOR FUTURE PREDICTION BASED ON MACHINE LEARNING**

**ABSTRACT**

We would like to thank everyone who had contributed to the successful completion of this project. We would like to express my gratitude to my research supervisor, Dr Ghulam Muhammad for his invaluable advice, guidance and his enormous patience throughout the development of the research.

In addition, we would also like to express my gratitude to our loving parent and friends who had helped and given me encouragement.

## TABLE OF CONTENTS

# A PROJECT FOR MIDDLE AGE GROUP STUDENTS COUNSELING FOR FUTURE PREDICTION BASED ON MACHINE LEARNING

## ABSTRACT

The career guidance for student in Pakistan is all about looking in the market which field is trending which field is growing or where we can get instant growth. No one is concern about the student's mind or student's interest where they can grow at their pace with their expertise and interest. The most now a days we do in the name of career counselling is conducting seminars, which is not enough for one to select or to choose right path. Selecting the right path for the career is one of the biggest concerns of the time. Students select wrong field (career option) and then suffer throughout their lifetime. This is all because of the lack of career guidance from the initial ages. The guidance is important from the beginning and if it would be given at right age the product (i.e., human resource) would be appreciable. Our web application i.e., **Prediction and Recommendation** is a web-application which would be guiding the students to select the right path for their professional journey. The application is built upon Anvil and can be used upon any device with internet. We believe that students need to get guidance about their field from 8<sup>th</sup> standard. The application focuses on the grades of the students in different subjects, advise them to do hard work in those subjects which may give them better results and then eventually counsel them about different field options based on their grades and performance in different courses. Our aim is to counsel the young generation throughout their middle age so that they just get the right path to achieve better future for themselves and for the nation.

LIST OF TABLES

**TABLE OF CONTENTS**

TABLE	PAGE
DECLARATION	2
APPROVAL FOR SUBMISSION	3
ACKNOWLEDGEMENTS	6
ABSTRACT	7
TABLE OF CONTENTS	8
LIST OF TABLES	9
LIST OF FIGURES	10

**CHAPTERS**

<b>1 INTRODUCTION</b>	<b>11</b>
1.1 Background	11
1.2 Problem Statements	12
1.3 Aims and Objectives	13
1.4 Scope of Project	13
<b>2 LITERATURE REVIEW</b>	<b>14</b>
2.1 Research Work	
<b>3 DESIGN AND METHODOLOGY</b>	<b>18</b>
3.1 METHODOLOGY	
<b>4 RESULT AND DISCUSSIONS</b>	<b>22</b>
<b>5 CONCLUSION</b>	<b>27</b>
5.1 CONCLUSION	
<b>5 REFERENCE</b>	<b>28</b>