



**FINAL YEAR PROJECT REPORT**  
**SMART RECRUITMENT SYSTEM**

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

**By**

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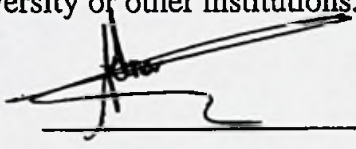
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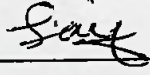
**DECLARATION**

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.

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## SMART RECRUITMENT SYSTEM

### ABSTRACT

Human personality has played a vital role in an individual's life as well as in the development of an organization. One of the ways to judge human personality is by using standard questionnaires or by analysing the Curriculum Vitae (CV). Traditionally, recruiters manually shortlist/filters a candidate's CV as per their requirements. In this paper, we present a system that automates the eligibility check and aptitude evaluation of candidates in a recruitment process. To meet this need an online application is developed for the analysis of aptitude or personality test and candidate's CV. The system analyses professional eligibility based on the uploaded CV. The system employs a machine learning approach using TF-IDF Algorithm. The output of our system gives a decision for candidate recommendation. Further, the resulting scores help in evaluating the qualities in the candidates by analysing the scores obtained in different areas. The graphical analysis of the performance of any candidate makes it easier to evaluate his/her personality and helpful in analysing the CV properly. Thus, the system provides a helping hand for the recruitment process so that the candidate's CV will be shortlisted, and the fair decision will be made.

## TABLE OF CONTENTS

<b>DECLARATION</b>		<b>i</b>
<b>APPROVAL FOR SUBMISSION</b>		<b>ii</b>
<b>ACKNOWLEDGEMENTS</b>		<b>iii</b>
<b>ABSTRACT</b>		<b>iv</b>
<b>TABLE OF CONTENTS</b>		<b>v</b>
<b>LIST OF TABLES</b>		<b>vi</b>
<b>LIST OF FIGURES</b>		<b>vii</b>
<b>LIST OF SYMBOLS / ABBREVIATIONS</b>		<b>viii</b>
<b>LIST OF APPENDICES</b>		<b>ix</b>
<b>CHAPTER</b>		
<b>1</b>	<b>INTRODUCTION</b>	<b>1</b>
	1.1 Background	1
	1.2 Problem Statements	1
	1.3 Aims and Objectives	1
	1.4 Scope of Project	2
<b>2</b>	<b>LITERATURE REVIEW</b>	<b>4</b>
	2.1 E-Recruitment System Case Study Analysis	4
	2.2 Measuring Personality	4
	2.3 CV Analysis using Machine Learning	5
<b>3</b>	<b>DESIGN AND METHODOLOGY</b>	<b>7</b>
	3.1 Complete Design Structure	7
	3.2 Architecture of the System	8
	3.3 Research Methodology	10
	3.3.1 Development Model	10
	3.3.2 Water Fall Model Approach	11
	3.4 Project Diagram	14
	3.4.1 Data base Design ERD	14
	3.4.2 Data Flow Diagram DFD	15
	3.4.3 Use Cases	15
<b>4</b>	<b>Implementation</b>	<b>21</b>
	4.1 Module Development	21
	4.2 GUI and Source Code	31
	4.3 Result and Discussion	37



<b>5</b>	<b>Testing and Evaluation</b>	<b>34</b>
	5.1 Introduction	38
	5.2 Front-End Testing	39
	5.3 Back-End Testing	43
<b>6</b>	<b>CONCLUSION AND FUTUER WORK</b>	<b>44</b>
	6.1 ConclusionError! Bookmark not defined.	
	44	
	6.2 Future work	45
	<b>REFERENCES</b>	<b>46</b>