



FINAL YEAR PROJECT REPORT

**DEVELOPMENT OF MOBILE APPLICATION
FOR DIAGNOSIS OF PSYCHOLOGICAL
DISORDERS USING NLP**

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

By

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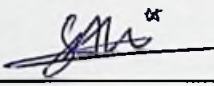
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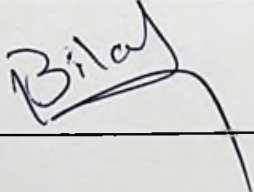
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We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award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

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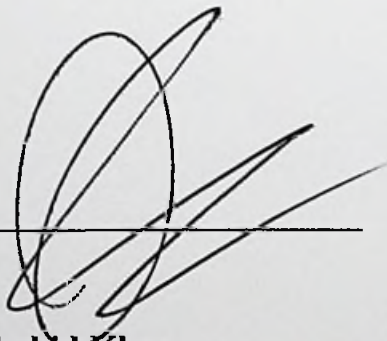
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We certify that this project report entitled “**DEVELOPMENT OF MOBILE APPLICATION FOR DIAGNOSIS OF PSYCHOLOGICAL DISORDERS USING NLP**” was prepared by **BILAL & SAMIULLAH** has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of **Computer Science** at Bahria University.

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Supervisor : Mr Shahid Khan

Date : 19 Dec 2022

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Special thanks are due to the family members for their love, support and encouragement throughout the project.

Specially dedicated to
my beloved grandmother, mother and father

BILAL

and

my beloved grandmother, mother and father

SAMI ULLAH

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DEVELOPMENT OF MOBILE APPLICATION FOR DIAGNOSIS OF PSYCHOLOGICAL DISORDERS USING NLP

ABSTRACT

The abstract of this project is to develop a mobile application to diagnose mental illness like Depression, Stress and Anxiety. This report delves into different techniques used for the Natural language processing and machine learning to interact with user and get to know about him/her and his/her Illness. The following steps will be analyzed and discussed: data collection, cleaning, merging, pre-processing, and feature extraction from the data and the DSM-V (The Diagnostic and Statistical Manual of Mental Disorders). Finally, the end product of the set of rules will be written in the software called React native and the model will communicate via APIs.

This project uses the Natural language processing techniques to develop a Chatbot that asks only questions and understands the meaning behind the answers of the user. The main benefit of using this technique is that it provides relevant data from the user, which can be then feed to the machine learning model as an input to predict the results.

The user first proceeds with the app and interact with the questionnaires after answering all the questionnaires, depending on the severity of the illness, articles related to diseases will be shown on his dashboard, if the severity score is high.

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