North Maharashtra University, Jalgaon

Faculty of Science and Technology

BACHELOR OF COMPUTER APPLICATIONS (BCA)

BCA 607 - Project Report & Viva

w.e.f. 2019-20

Total Lectures: 60

[Total Marks: 60 External + 40 Internal =100 Marks]

Objective: – To prepare students to use applications of the theory and practical learned during the course.

PROJECT WORK

1. Each student shall have to carry out the project work based on System Development which may include Application Program, Database Management System, Web Based Application, Smart phone Application, System Tools, Network System Application, etc. A project may be carried out at any outside organization or on a sub system of an organization.
2. The project work should be carried out individually. No group work is allowed in the Project work. The project title should not be repeated.
3. The topic of the project should be decided with the consultation & guidance of an internal guide-teacher of the institute/college. The project should be necessarily innovative and problem solving. No teacher shall be entrusted with more than 15 students for guidance and supervision.
4. The student should clearly mention the need of project , database(s), files required for the project, DFD , Normalization, ERD, software used for the project, reasons for selection of that software, inputs required, outputs produced etc.
5. The application should be menu driven and should provide the facilities of storage of data, modifications in existing data, deletion of unwanted data, and viewing of data.
6. The student has to write a report based on the actual work undertaken during the vacations at the specific selected enterprise/ organization or sub system and get it certified by the concerned teacher that the Project report has been satisfactorily completed and submit TWO typed copies of the same to the Head / Director of the institute /Principal of the college.
7. One copy of the report submitted by the student shall be forwarded to the University by the Institute.
8. No student will be permitted to appear for Viva-Voce examinations, unless and until the project report is submitted within the stipulated time.

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Project Report

On

Automated Mental Stress Detection System

Submitted To

Dr. Annasaheb G.D. Bendale Mahila Mahavidyalaya, Jalgaon
College Code:100003

Ested: 1984(NAAC Accredited 'A' Grade)

Submitted By

Name: Mayuri Shatrughna Sonawane

Under the Guidance of

Dr. Harshali B. Patil

In Partial Fulfilment of

Bachelor of Computer Application

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

For the Academic Year 2023-2024

Lewa Educational Union's

Dr. Annasaheb G.D. Bendale Mahila Mahavidyalaya

NAAC Re-accredited 'A' Grade (CGPA 3.12)

ISO 9001:2019 Certified

CERTIFICATE

Department of Computer Application

This is to certify that Miss. Mayuri Shatrughna Sonawane. Final year student of "Bachelor of Computer Application" has successfully completed the project entitled "Automated Mental Stress Detection System" Under the guidance of Dr. Harshali B. Patil during the year 2023-2024.

Dr. Harshali B. Patil
Project Guide

Dr.Annasaheb G.D.Bendale Dept.of Computer Science

Head
Head
Department of Computer Science
Dr.Annasaheb G.D.Bendale
Mahila Mahavidyalaya,Jalgaon

Examined By

Internal Examiner

External Examiner

CONCLUSION

The automation mental stress detection system project represents a significant advancement in leveraging technology to address mental health challenges. By integrating machine learning algorithms with physiological data, this system offers a promising approach for early detection and intervention of mental stress. Through real-time monitoring and analysis, individuals can receive timely support, potentially reducing the impact of stress-related disorders. While further research and refinement are needed, the potential benefits of such a system are substantial, paving the way for more personalized and proactive mental health.

It is concluded that KNN algorithm produces good accuracy of 92% when tested on small sample size. In future we will try to test the same model on large sample size. We will also try to compare applicability of other machine learning algorithm for mental stress detection among school children. We will also try to check the results of KNN on data collected by wearable devices and compare it with questionnaire method.