

RECOGNIZING EMOTIONAL STATES WITH WEARABLES WHILE PLAYING A SERIOUS GAME

A Dissertation submitted to

ANNAMALAI UNIVERSITY, ANNAMALAI NAGAR

in partial fulfilment of the requirements for the

**M.Sc., DEGREE COURSE
in
COMPUTER SCIENCE**

Submitted by

**B. BHAVYADHARSHINI
(Reg. No.40122412006)**

Guided by

**Dr. V. VASANTHI M.CA., M.Phil., Ph.D.,
Associate Professor
Department of Computer Science**



**DHARMAPURAM GNANAMBIGAI GOVT. ARTS COLLEGE
FOR WOMEN**

MAYILADUTHURAI-609 001

DEPARTMENT OF COMPUTER SCIENCE

MARCH 2024

CERTIFICATE

CERTIFICATE

This is to certify that the project is done under the guidance of **Dr. V.VASANTHI M.C.A., M.Phil., Ph.D.,** Associate Professor of Computer Science and the dissertation entitled “**RECOGNIZING EMOTIONAL STATES WITH WEARABLES WHILE PLAYING A SERIOUS GAME**“ is submitted by **B. BHAVYADHARSHINI (Reg. No.40122412006)** in partial fulfilment of the requirements for the Master Degree Course in Computer Science for the academic period 2023-2024 is the original work of the candidate.

Signature of the Guide

Signature of the H.O.D

VIVA VOCE

VIVA VOCE EXAMINATION

The viva voce Examination of this project work is held on
.../.../2024.

INTERNAL EXAMINER

EXTERNAL EXAMINER

DECLARATION

DECLARATION

I **B. BHAVYADHARSHINI** (Reg. No.40122412006) hereby declare that the project work entitled “**RECOGNIZING EMOTIONAL STATES WITH WEARABLES WHILE PLAYING A SERIOUS GAME**” Submitted to **Annamalai University** for the award of the degree of **M.Sc., in Computer Science** is a record of bonafide project work done by me under the guidance of **Dr. V.VASANTHI M.C.A., M.Phil., Ph.D.**, Associate Professor, Department of Computer Science, Dharmapuram Gnanambigai Govt. Arts College for Women, Mayiladuthurai.

Place: Mayiladuthurai

Date:

(B.BHAVYADHARSHINI)

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

I would to like to express my sincere thanks to our principal **Dr. B. PADMINI M.A., M.Phil., M.A(Ling).,Diploma in Folklore.**, for permitting me to do the project work.

I devote my sincere thanks to **Dr. K. MANGAYARKKARASI M.Sc., P.G.D.C.A., M.Phil., Ph.D.**, Head of the Department of Computer Science, Dharmapuram Gnanambigai Govt. Arts College for Women, for her encouragement in preparation of this project.

I am grateful to express my profound and sincere thanks to my guide **Dr. V. VASANTHI M.C.A., M.Phil., Ph.D.**, Associate Professor, Department of Computer Science, Dharmapuram Gnanambigai Govt. Arts College for Women, Mayiladuthurai, for her valuable guidance and criticisms. The successful completion of the project was due to her timely monitoring and useful guidance.

My sincere thanks and gratitude to all other Staff members of Computer Science, my parents and my friends for their co-operation in completing the foremost task.

(B. BHAVYADHARSHINI)

CONTENT

CONTENT

S.NO	TITLE	PAGE NO
	ABSTRACT	(i)
1	PROBLEM DESCRIPTION	1
2	SYSTEM STUDY 2.1 EXISTING SYSTEM 2.2 PROPOSED SYSTEM	2
3	SYSTEM CONFIGURATION 3.1 HARDWARE CONFIGURATION 3.2 SOFTWARE CONFIGURATION	5
4	SOFTWARE DESCRIPTION PYTHON	6
5	SYSTEM DESIGN	26
6	SYSTEM IMPLEMENTATION	27
7	SOURCE CODE	30
8	SYSTEM TESTING	51
9	SCREEN LAYOUT	56
10	CONCLUSION & FUTURE ENHANCEMENT 10.1 CONCLUSION 10.2 FUTURE ENHANCEMENT	62
	BIBLIOGRAPHY	64