





BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
173, AGHRAM ROAD, SELAIYAR,
CHENNAI – 600 073

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled "REAL TIME BOT DETECTION IN TWITTER USING PYTHON" is original record work done by **S.ABINAYAN-U20CA001, K.ABIRAMI-U20CA002, A.ABITHA-U20CA003, V.ADIVARMAN-U20CA004.**, under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


DR. D. Kerana Hanirex
PROJECT GUIDE

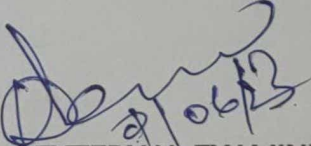

DR. D. Kerana Hanirex
Head of the Department
HEAD OF THE DEPARTMENT
Department of Computer Science
Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University under UGC Act, 1956)
Chennai-600 126, INDIA.

Submitted for the Viva-Voce examination held on
Higher Education and Research, Selaiyur, Chennai.

11/6/23

at Bharath Institute of

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EXTERNAL EXAMINER



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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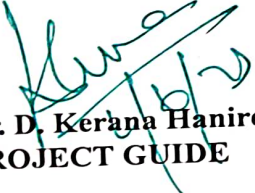
FACULTY OF ARTS & SCIENCE


83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “Cryptography Application (CRYPTER) by AES, RSA, Blowfish Algorithms for performing and Evaluating the Secure Data and Protection” is original record work done by ALEX S(U20CA007), AJAY P(U20CA005), AJAY R(U20CA006), ANBUSELVAN(U20CA008), under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr. D. Kerana Hanirex
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
Department of Computer Science
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Chennai - 600 126, INDIA.

Submitted for Viva-Voce examination held on 01.06.20 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


G. Visalan
INTERNAL EXAMINER


EXTERNAL EXAMINER



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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “Efficient speech signal and segmentation using machine language” is original record work done Ashok kumar v - U20CA010, Baskaran r - U20CA012 and Dhanalakshmi s - U20CA013 under my guidance and supervision for the partial fulfillment of award of degree in Master of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

Dr. S. Thiruniraisenthil

PROJECT GUIDE

Head of the Department
Department of Computer Science
Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University under section 3 of UGC Act. 1956)
Chennai - 600 126 (INDIA)

Dr. D. Kerana Hanirex

HEAD OF THE DEPARTMENT

Submitted for Viva-Voce examination held on 1/6/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

G. Visalan
INTERNAL EXAMINER

2

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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled “A HYBRID APPROACH FOR DETECTING AUTOMATED SPAMMERS IN TWITTER” is original record work done

by DHARANI AKASH. E (U20CA014), DHINAKARAN.A (U20CA015) under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

DR. S.Thiru M.rai Senthil
PROJECT GUIDE

Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act. 1956)
Chennai - 600 126, INDIA.

01-06-2023

Submitted for the Viva-Voce examination held on ⁰¹⁻⁰⁶⁻²⁰²³ at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

G. Visalan
INTERNAL EXAMINER

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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE


BONAFIDE CERTIFICATE

This is to certify that the project entitled “CUSTOMIZED ART GIFT SHOW WEBSITE” is original record work done by DIVYA.S (U20CA018), DURAI SINGH PRABAKARAN.K (U20CA019), ESWARI.R (U20CA020) & GERSON SAMRAJ(U20CA021) under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.



Dr. S. Brintha Rajakumari
PROJECT GUIDE

Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

Submitted for Viva-Voce examination held on 1/6/23 at Department of Computer Application, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


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DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled **Automotive breakdown Support System** original record work done by **R.GOPINATH(U20CA022)** , **HARDHIK R PATEL(U20CA023)** , **HARIHARAN.A(U20CA024)** , **HARIHARAN(U20CA025)** under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr.S.Brintha Rajakumari
PROJECT GUIDE


DR.D.KERANA HANIREX
HEAD OF THE DEPARTMENT
(Declared as Deemed to be University under UGC Act, 1956)
Chennai - 600 126 INDIA.

Submitted for the Viva-Voce examination held on 2/6/23 at Bharath Institute Higher Education and Research, Selaiyur, Chennai.

Date :


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INSTITUTE OF SCIENCE AND TECHNOLOGY


83 garam Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126


FACULTY OF ARTS & SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE


This is to certify that the project entitled “HUMAN ILLEGAL MONITORING AND PREDICTION FROM REAL TIME CCTV FOOTAGES USING DEEP LEARNING” is original record work done BY.HARISH Y(U20CA028),HARIHARAN J(U20CA026), JAGATISH M(U20CA030), JAGADEESWARAN S(U20CA029), under my guidance and supervision for the Partial fulfillment of award of degree in B.C.A. as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


D.R. RAJAKUMARI
PROJECT GUIDE


D.D. KERANA HANIREX
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Submitted for Viva-Voce examination held on 01/06/2023 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


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FACULTY OF ARTS & SCIENCE

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DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “GUI APPLICATION USING IMAGE STEGNOGRAPHY IN PYTGON FOR EMBEDDING IMAGES IN GEOTAGGING” is original record work done by JAMI PAULRAJ P(U20CA031), JANANI(U20CA032), JEYA MOHAN(U20CA033), JESWIN(U20CA034), under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr. K. Rajakumari
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

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FACULTY OF ARTS & SCIENCE


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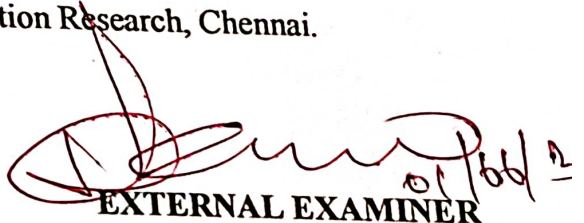
This is to certify that the project entitled “**IMAGE FORGERY DETECTION IN REAL TIME USING MACHINE LEARNING**” is original record work done by **A.KARAN (U20CA037), J.JOHNSON (U20CA035), N.KAMALESH (U20CA0360)** under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


DR.K.RAJAKUMARI
PROJECT GUIDE


DR.D.KERANA HANIREX
HEAD OF THE DEPARTMENT
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(Declared as Deemed to be University UGC Act. 1956)
Chennai-600 126, INDIA.

Submitted for Viva-Voce examination held on 2 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


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FACULTY OF ARTS & SCIENCE

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DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “Comparing analysis on container ships Weather Forecasting by Big data analysis” is original record work done by KATHIRAVAN(U20CA040), KAVIYA K(U20CA041), KAVIYA B(U20CA042), under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr. K. Rajakumari
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Dr. D. Kerana Hanirex
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DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

We is to certify that the project entitled **“Speech Recognition using Wav2Vec2 Model”** Is original record work done by **KOWSALYA SURESH U20CA043, LAKSHMI U20CA045, LOKESH KUMAR U20CA046** under my guidance and supervision for the partial fulfillment of award of degree in Master of Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

S. Silvia Priscila
11/6/23
DR. S. SILVIA PRISCILA
PROJECT GUIDE

Dr. D. Kerana Hanirex
Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

BHARATH INSTITUTE
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Submitted for Viva-Voce examination held on 01-06-23 at Department of Computer Application, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

G. Visalan
INTERNAL EXAMINER
EXAMINER

Dr. M. P. S.
01/6/23
EXTERNAL



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DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “Efficient person identification by palm print through Artificial Intelligence” is original record work done by MADHAVAN(U20CA047), MAHESH M(U20CA048), MANIKANDAN PARIDA(U20CA049), MANOJ(U20CA050) under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr. S. Silvia Priscila
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

Submitted for Viva-Voce examination held on 01/06/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled INTELLIGENT INDIAN TWINS IDENTIFICATION BY MNIST DATASET USING MACHINE LEARNING is original record work done by M.MATHIKIRUBAN, (U20CA051), A.MOHAMED ANEES, (U20CA052), S.MOHAMED ISMAIL, (U20CA053), S.MOHAMMED AASHIF, (U20CA054) under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

Silvia Priscila
Dr. S. Silvia Priscila
PROJECT GUIDE

Kerana Hanirex
Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
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Chennai-600 126 INDIA.

Submitted for Viva-Voce examination held on 1/6/23 at Department of Computer Science,
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[Signature]
INTERNAL EXAMINER

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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 073

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled **Loan prediction system using machine learning** is original record work done by **Mohammed Nisar.C – U20CA055, Mohan Raj.G – U20CA056, Monish.M – U20CA057** and **Mohammed Eid.M – U20CA058** under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

Sylvia Priscila
7/6/23
Dr. S. Sylvia Priscila
PROJECT GUIDE

[Signature]
Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
Department of Computer Science
Faculty of Arts & Science
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(Declared as Deemed to be University under section 3 of UGC Act 1956)
Chennai-600 073.

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G. Visalan
INTERNAL EXAMINER

[Signature]
01/06/23
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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE


BONAFIDE CERTIFICATE

This is to certify that the project entitled “**MOBILE SHOPPING**”
is original record work done by **MOHAMMED SANOOF**

(U20CA059)MOHAMMED USAMA NAHIL(U20CA060)S G MUKKESH
(U20CA061) NAVEEN KUMAR(U20CA062) under my guidance and supervision for
the partial fulfillment of award of degree in Bachelor of Computer Applications as per
syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher
Education and Research, Selaiyur, Chennai.


DR.T.C VIJAYARAGHAVAN

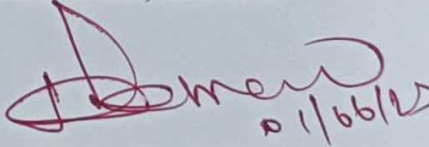
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
Bharath Institute of Higher Education & Research
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Chennai-600 126, INDIA.

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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “FACE RECOGNITION ATTENDANCE SYSTEM USING PYTHON” is original record work done by PRABHUTOSH P NAIK, U20CA066, POOVARASAN M (Register No. U20CA065), NIVERTHIGANESH N (Register No. U20CA063), PERUMAL M (Register No. U20CA064) under my guidance and supervision for the partial fulfillment of award of degree in “BACHELOR OF COMPUTER APPLICATION” as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

T.C. Vijayaraghavan

Dr. T.C.Vijayaraghavan
PROJECT GUIDE

Dr. D. Kerana Hanirex
11/6/23

Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Chennai-600 126. INDIA.

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INTERNAL EXAMINER
INTERNAL EXAMINER

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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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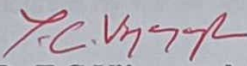
FACULTY OF ARTS & SCIENCE

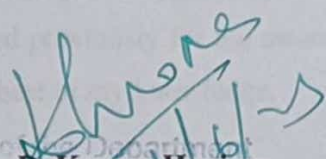
83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126.

DEPARTMENT OF COMPUTER SCIENCE

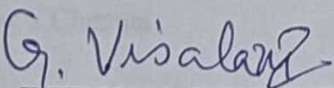
BONAFIDE CERTIFICATE

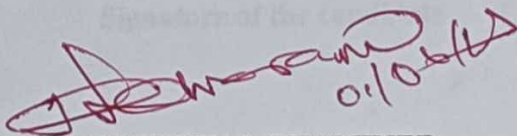
This is to certify that the project entitled “**CARTOONIZE IMAGES USING PYTHON AND MACHINE LEARNING**”, record work done by **U20CA067 - PRADHUNPAL.G, U20CA068 - PRAKASH.A, U20CA069 - PRAVEEN.N, U20CA070 - PREMA.D**, under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Application, as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr. T.C. Vijayaraghavan
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
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G. Visalan
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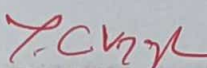
FACULTY OF ARTS & SCIENCE

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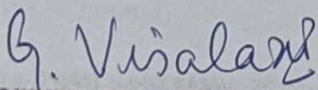
BONAFIDE CERTIFICATE

This is to certify that the Project entitled "FAKE PRODUCT REVIEW MONITORING SYSTEM" is original record work done by PRIYANKA. R (U20CA071), RAGHU. R (U20CA072), RAGUL. D (U20CA073), RAJESH. K (U20CA074) under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr. T.C. Vijayaraghavan
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

Submitted for the Viva-Voce examination held on 01/06/2023 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


G. Visalan
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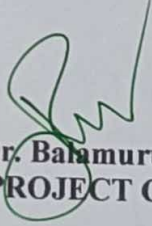
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DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

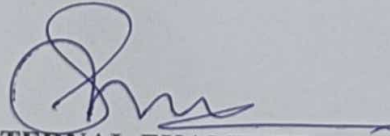
This is to certify that the project entitled “ A NOVEL METHOD TO PREDICT SEED QUALITY USING MACHINE LEARNING” is original record work done by **RAJESH.R (U20CA075), RAMANAN .G(U20CA076), RAMESH.M(U20CA077), RANJITH KUMAR.K(U20CA078)** under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr. Balamurugan
PROJECT GUIDE

Head of the Department
Department of Computer Science
Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act. 1956)
Chennai - 600 126, INDIA.


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

Submitted for Viva-Voce examination held on 1/6/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


INTERNAL EXAMINER


EXTERNAL EXAMINER



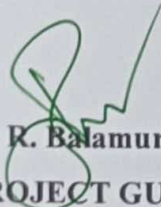
Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)


FACULTY OF ARTS & SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled "FAQ CHATBOT USING ARTIFICIAL INTELIGENCE AND NATURAL LANGUAGE PROCESSING" is original record work done by S.ROHIT (U20CA079), A.RUBAN RAJ (U20CA080) , S.RUTHRA (U20CA081), H.RUWAITH (U20CA082) under my guidance and supervision for the partial fulfilment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Dr. R. Balamurugan
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

Head of the Department
Department of Computer Science
Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University under section 3 of UGC Act 1956)
Chennai - 600 225 - 042244

Submitted for Viva-Voce examination held on 09/06/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


INTERNAL EXAMINER


EXTERNAL EXAMINER



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled **AUCTION SYSTEM** is original record work done by **SADHAM HUSSAIN.R, U20CA083 SAMSUDEEN.M, U20CA084, SANDHYA.S, U20CA085, SANJAY.P, U20CA086**, under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

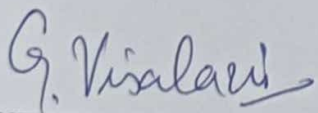

R. Balamurugan

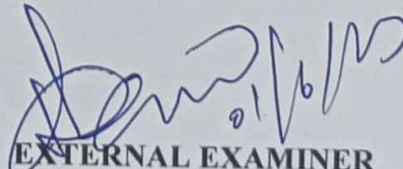
GUIDE


Dr. D. Kerana Hanirex

HEAD OF THE DEPARTMENT

Submitted for the Viva-Voce examination held on 9/01/06/23 at Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


INTERNAL EXAMINER


EXTERNAL EXAMINER



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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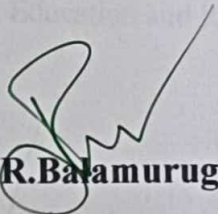
FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled **CURRENCY RECOGNITION USING PYTHON** is original record work done by **SANTHA KUMAR.V– U20CA087**, **SASIKUMAR.S U20CA088**, **SATHISH KUMAR.D – U20CA089**, **SHANMUGARAJ.S U20CA090** under my guidance and supervision for the partial fulfillment of award of degree in Master of Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

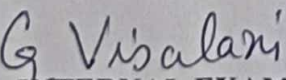

Dr. R. Balamurugan

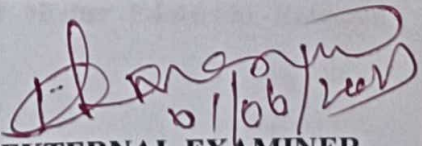
PROJECT GUIDE


Dr. D. Kerana Hanirex

HEAD OF THE DEPARTMENT

Submitted for Viva-Voce examination held on 01/06/23 at Department of Computer science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


G. Visalaxi
INTERNAL EXAMINER


EXTERNAL EXAMINER



Bharath

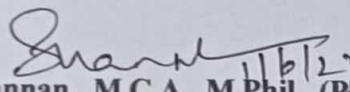
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

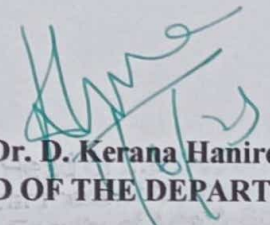
FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126.

DEPARTMENT OF COMPUTER SCIENCE BONAFIDE CERTIFICATE

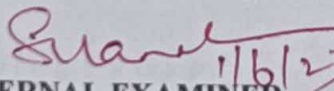
This is to certify that the project entitled “SUICIDE PREVENTION CHATBOT FOR CHROME BROWSER USING GOOGLE DIALOGFLOW”, record work done by SHARAN.K-U20CA091, SHARMILA.P-U20CA092, SIDDHARTH.S-U20CA093, SOWMIYA.R-U20CA094, under my guidance Mr.S.Kannan, Assistant Professor, Department of Computer Science, and supervision for the partial fulfillment of award of degree in Bachelor of Computer Application, as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

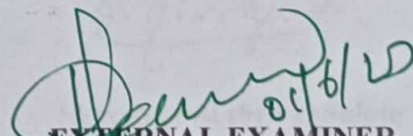

Mr. S. Kannan., M.C.A., M.Phil., (Ph.D)
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

Submitted for Viva-Voce examination held on 01/06/23 at Department of Computer Science,
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


INTERNAL EXAMINER


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FACULTY OF ARTS & SCIENCE

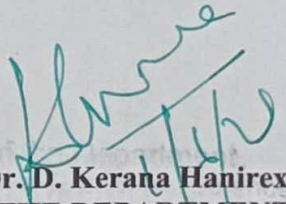
83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

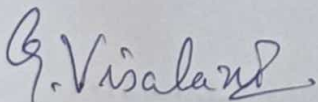
BONAFIDE CERTIFICATE

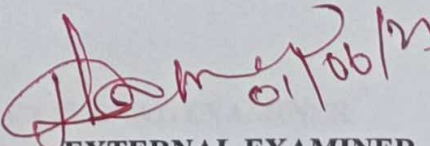
This is to certify that the project entitled “**FACIAL EXPRESSION RECOGNITION USING CONVOLUTIONAL NEURAL NETWORKS**” is original record work done by **SREE DURGA B(U20CA095),SRIDHAR R(U20CA096),SRIJA B(U20CA097),SRINATH A(U20CA098)** under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Mr.S.Kannan 1/6/23
PROJECT GUIDE


Head of Department
Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed to be University under section 3 of UGC Act 1956)
Chennai-600 126, INDIA.

Submitted for Viva-Voce examination held on 1/6/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


G. Visalan
INTERNAL EXAMINER


EXTERNAL EXAMINER



Bharath

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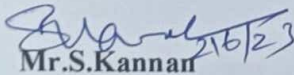
FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126


DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled as “**AI [Artificial Intelligence] Virtual Mouse Using Python**” is original record work done by **SRINATH M (U20CA099)** , **SUBASHINI V (U20CA100)** , **SUGASHINI M (U20CA101)** , **SUJITHA R (U20CA102)** under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Mr.S.Kannan

PROJECT GUIDE

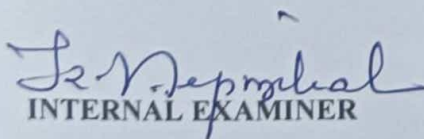

Dr. D. Kerana Hanirex

HEAD OF THE DEPARTMENT

Head of the Department
Department of Computer Science
Faculty of Arts & Science

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)
Chennai-600 126 INDIA.

Submitted for the Viva-Voce examination held on 02/06/2023 at Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


INTERNAL EXAMINER


EXTERNAL EXAMINER



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

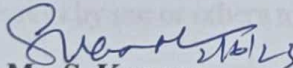
FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled as “DATA ANALYSIS OF CRICKET USING PYTHON” is original record work done by SURYA GOWTHAM. G(U20CA104), SURIYA KUMAR.S(U20CA105), THAMARAI MANNALAN.S(U20CA106), under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Mr. S. Kannan

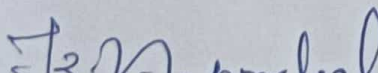
PROJECT GUIDE


Dr. D. Kerana Hanirex

HEAD OF THE DEPARTMENT
Head of the Department
Department of Computer Science
Faculty of Arts & Science

BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S of UGC Act, 1956)

Submitted for the Viva-Voce examination held on 02.06.2023 at Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


INTERNAL EXAMINER


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(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “SPEECH RECOGNITION USING AI” is original record work done by **R.THAMEEMANSARI, (U20CA107), T.VAISHNAVI, (U20CA108), V.VAISHNAVI, (U20CA109), G.VENKATRAMAMOORTHY, (U20CA110)**, under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

V. Brindha
Ms. V. Brindha 31/05/2023
PROJECT GUIDE

Dr. D. Kerana Hanirex
Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
Department of Computer Science
Faculty of Arts & Science
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai - 600 126, INDIA.

Submitted for Viva-Voce examination held on 2/6/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

[Signature]
INTERNAL EXAMINER

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II





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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled “MEDICATION REMINDER APP FOR PATIENT” is original record work done by VIGNESH.P (U20CA111), VIGNESHWARI.V (U20CA112), VIJAY.M (U20CA113), VIJAYARAJ.S (U20CA114)., under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

V. Brindha
02/06/23

Mrs.V.Brindha

PROJECT GUIDE

K. Hanirex
Department of Computer Science
HEAD OF THE DEPARTMENT
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act 1956)
Chennai-600 126, INDIA.

Submitted for the Viva-Voce examination held on 02/06/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

[Signature]
INTERNAL EXAMINER

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Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

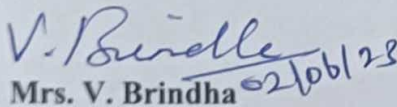
FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the Project entitled as “THE REAL TIME CHAT APPLICATION” is original record work done by R.VISHWA-U20CA115, YAHYA.N-U20CA117, YAKESH.M-U20CA118, VISHWA.S U20CA116, under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications, as per syllabus prescribed by the Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Mrs. V. Brindha 02/06/23

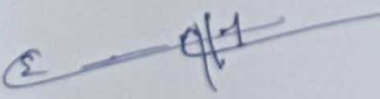
PROJECT GUIDE

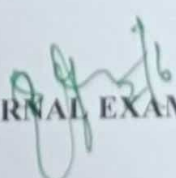

Dr. D. Kerana Hanirex

HEAD OF THE DEPARTMENT

Head of the Department
Department of Computer Science
Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Chennai-600 126. INDIA.

Submitted for the Viva-Voce examination held on 02/06/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


INTERNAL EXAMINER


EXTERNAL EXAMINER



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “**FACIAL EMOTION RECOGNITION USING ARTIFICIAL INTELLIGENCE IN PYTHON**” is original record work done by **YOGESH.R.IYER U20CA119, YOGESHWARAN.S U20CA120, YUVARAJA U20CA121, YUVARAJ.P U20CA122** under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

V. Brindha
31/05/23
Mrs.V.BRINDHA
PROJECT GUIDE

Dr. D. Kerana Hanirex
Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
Department of Computer Science
Faculty of Arts & Science
Bharath Institute of Higher Education and Research
Selaiyur, Chennai

Submitted for Viva-Voce examination held on 02/06/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

[Signature]
INTERNAL EXAMINER

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EXTERNAL EXAMINER

(iii)





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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

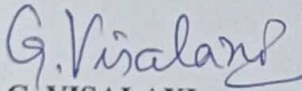
FACULTY OF ARTS & SCIENCE

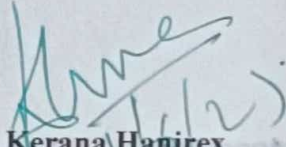
83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

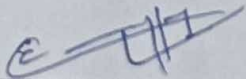
BONAFIDE CERTIFICATE

This is to certify that the project entitled “CHESS GAME WITH AI OPPONENTS” is original record work done by VIJAY L (U20CA126), YUVARAJ (U20CA123), SUNDESH (U20CA124), SRINATH (U20CA125) under my guidance and supervision for the partial fulfillment of award of degree in Master of Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


G. VISALAXI
PROJECT GUIDE


Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT

Submitted for Viva-Voce examination held on 02/06/23 at Department of Computer Application, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


INTERNAL EXAMINER


EXTERNAL EXAMINER



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “**CHARGING SLOT PREDICTION AND AUTOMATION SYSTEM FOR ELECTRIC VEHICLES CHARGING STATION**” is original record work done by **SANTHOSH KUMAR.M , U20CA130** under my guidance and supervision for the partial fulfillment of award of degree in Master of Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

G. Visalaxi
PROJECT GUIDE

[Signature]
Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University under UGC Act 1956)
Chennai-600 126 INDIA.

Submitted for Viva-Voce examination held on 2/6/23 at Department of Computer Application, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

[Signature]
INTERNAL EXAMINER

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EXTERNAL EXAMINER



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

FACULTY OF ARTS & SCIENCE

83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “EFFICIENT FACIAL EXPRESSION RECOGNITION AND CLASSIFICATION USING MACHINE LEARNING” is original record work done by GRANDHI PAVAN TEJA_(U20CA133), under my guidance and supervision for the partial fulfillment of award of degree in Bachelor of Computer Application with data analytics as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

G. Visalaxi
Ms.G.VISALAXI
PROJECT GUIDE

[Signature]
Dr. D. Kerana Hanirex
HEAD OF THE DEPARTMENT
Faculty of Arts & Science
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Chennai-600 126. INDIA.

Submitted for Viva-Voce examination held on 2/6/23 at Department of Computer Science
Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

[Signature]
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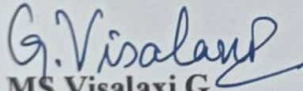
FACULTY OF ARTS & SCIENCE

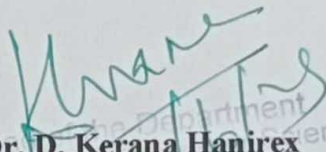
83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

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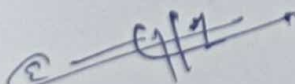
This is to certify that the project entitled **AIRCRAFT DETECTION USING MACHINE LEARNING** is original record work done by **ABINESH.M U20CA703**, under my guidance and supervision for the partial fulfillment of award of degree in BCA Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

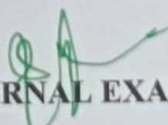

MS. Visalaxi.G
PROJECT GUIDE


Dr. D. Kerana Hanirex
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(Declared as Deemed to be University under section 3 of UGC Act 1956)
Chennai - 600 126, INDIA.

Submitted for Viva-Voce examination held on 02/06/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


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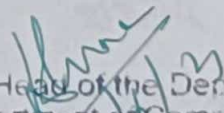
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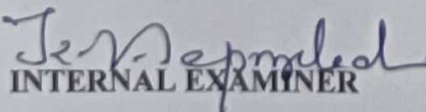
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This is to certify that the project entitled **HR ANALYTICS** is original record work done by **GOPINATH. M, U20CA706, MILFERD.B U20CA707, RATHNA KUMAR.S U20CA708, TAMILARASU.M U20CA709** under my guidance and supervision for the partial fulfillment of award of degree in BCA Computer Applications as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.



Mr. Edwin Shalom Soji
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Submitted for Viva-Voce examination held on 2/2/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


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This is to certify that the project entitled “**AUTOMATIC NUMBER PLATE DETECTION**” is original record work done by **NISHA BERTILLA R - U20CA710, SURJEETH KUMAR U - U20CA711, MADHAVAN S - U20CA712, VASANTH R - U20CA713**, under my guidance and supervision for the partial fulfillment of award of degree in BCA as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

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This is to certify that the project entitled “**FOREST FIRE DETECTION**” is original record work done by **TAMIZHANBAN D S - U20CA714, SUBASH M - U20CA715, DINESH D - U20CA716, SUNIL B - U20CA717** under my guidance and supervision for the partial fulfillment of award of degree in BCA as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

Mr. Edwin Shalom Soji
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Submitted for Viva-Voce examination held on 02/06/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

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83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

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BONAFIDE CERTIFICATE

This is to certify that the project entitled “EFFICIENT MACHINE LEARNING TECHNIQUE FOR SIGN LANGUAGE RECOGNITION” is original record work done by U.SANDHIYA U20CA721, M.BALAKRISHNAN U20CA718, P.RAHIMKHAN U20CA719, K.BARATHKUMAR U20CA720 under my guidance and supervision for the partial fulfillment of award of degree in BCA as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.

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Submitted for Viva-Voce examination held on 21/6/23 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

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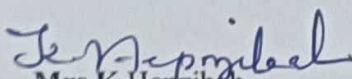
FACULTY OF ARTS & SCIENCE

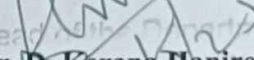
83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER APPLICATION

BONAFIDE CERTIFICATE

This is to certify that the project entitled “**Personalized Health Care Monitoring System for Diabetic Patients Using Machine Learning**” is original record work done by **Michael Antony George J-U20CA724 and Karthik P-U20CA723 and Muralidharan V-U20CA723** under my guidance and supervision for the partial fulfillment of award of degree in Master of Computer Application as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


Mrs K Hepzibah
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Head of the Department
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Submitted for Viva-Voce examination held on 22/06/23 at Department of Computer Application, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.


INTERNAL EXAMINER


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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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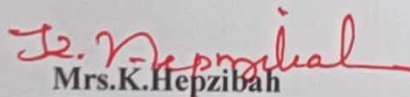
FACULTY OF ARTS & SCIENCE

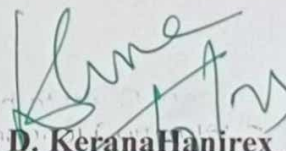
83/3, New Agaram Main Road, Tiruvanchery, Selaiyur, Chennai – 600 126

DEPARTMENT OF COMPUTER SCIENCE

BONAFIDE CERTIFICATE

This is to certify that the project entitled “WBC CANCER CELLS SEGMENTATION USING MACHINE LEARNING” is original record work done by **SANTHOSH.S, U20CA726**, under my guidance and supervision for the partial fulfillment of award of degree in BCA Computer Science as per syllabus prescribed by the Faculty of Arts & Science, Bharath Institute of Higher Education and Research, Selaiyur, Chennai.


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Submitted for Viva-Voce examination held on 14.07.2023 at Department of Computer Science, Faculty of Arts & Science, Bharath Institute of Higher Education Research, Chennai.

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