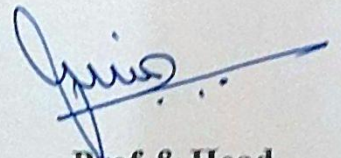Dr. Ambedkar Institute of technology, Bengaluru-56

Department of Computer Science & Engineering

The enclosed documents are verified & approved.

Prof & Head

Dr. Siddaraju

Department of Computer Science & Engineering

Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY, BANGALORE – 560056

Department of Computer Science& Engineering

Main Project – 18CSP82- 2021-22

Student Name	USN	Project Title	Guide Name
V Rahul	1DA18CS176	Diagnosis of Covid-19 from Chest X-rays & CT Scans using Complex Transfer Learning Algorithms	Dr.Siddaraju
Chandan Kumar Singh	1DA18CS201		
Sumukh M	1DA18CS163		
Riteesh M Mandi	1DA18CS204		
Amanpreet Singh	1DA18CS011	Fitness tracker using AI Pose Estimation	Dr.Asha
Abhishek	1DA18CS005		
Abhimanyu Kumar	1DA18CS003		
Advaith	1DA18CS007		
Ayushi Sinha	1DA18CS025	DETECTION OF PHISHING WEBSITES BY USING MACHINE LEARNING BASED ON URL ANALYSIS	Dr.Asha
Jagriti Priyadarshani	1DA18CS060		
Nisha Kumari Shah	1DA18CS102		
Manasa V	1DA18CS074	SMART CAP FOR VISUALLY IMPAIRED USING RASPBERRY PI AND TENSORFLOW	Dr. Leena Giri G
Meghashree	1DA18CS083		
Monisha G	1DA18CS088		
Nalini A R	1DA18CS093		
Shashank M Kadiwal	1DA18CS141	Deep Learning based Recognition of the Indian Medicial Plant Species	Dr.Gowrishankar S
Shrivathsa N V	1DA18CS150		
Venkatesh Hegde	1DA18CS183		
Shrimad	1DA18CS149	Knee Replacement prediction using Deep Learning	Dr.Gowrishankar S
Sindhu N	1DA18CS155		
Snehananda H A	1DA18CS158		
S G Anushka	1DA18CS130		
Aishwarya B R	1DA18CS009	Smart Classroom Attendance Management System Using Face Recognition and Raspberry Pi	Dr. Smitha Shekar B
Badri Narayan S	1DA18CS026		
Chinmayeshree K B	1DA18CS038		
Nandan T S	1DA18CS095	Smart Parking System using Android,IoT,Machine learning,cloud	Dr. Smitha Shekar B
Krushik N K	1DA18CS068		
Nikhil Mehra	1DA18CS098		
Likith R	1DA18CS073		
Deepthi T G	1DA17CS041	Cyber security Threats to Bitcoin exchanges: Adversary Exploitation and Laundering Techniques	Dr. Harish G
Dhanuja N	1DA17CS043		
Sushmitha J	1DA19CS426		
Swati S math	1DA19CS427		
Manjunath K	1DA18CS077	WeClean - Garbage disposal management	Dr. Harish G
Manohar K H	1DA18CS078		
Niteeshmurthy Bhat	1DA18CS104		
Nagabhushan K M	1DA18CS091		

Professor & Head
Department of Computer Science & Engineering
Dr. Ambedkar Institute of Technology
Bangalore-560 056

Name	USN	Project Title	Guide
Pranathi P	1DA18CS200	Batting analysis using CV	Dr. Nandini N
Vishal P Raj	1DA18CS188		
Nida Fathima	1DA18CS199		
Chaya K Rawat	1DA17CS038		
Bharath H K	1DA18CS027	Ball tracking analysis	Dr. Nandini N
Sanjay S Dev	1DA18CS138		
Shamanth R. Upadhya	1DA18CS154		
Skanda Kumar M R	1DA18CS156		
Ujval D R	1DA18CS173	Detection of Rheumatoid Arthritis using deep learning	Mr. Srinivasa A H
Vishwas K S	1DA18CS191		
Vignesh G	1DA18CS184		
Manisha H Dongre	1DA18CS196	Skin pigmentation Classification for malignant skin lesions(Skin Cancer) using Machine Learning.	Mr. Srinivasa A H
Vindhya J	1DA18CS187		
Pooja C	1DA18CS108		
Sparsha K	1DA18CS161	Summarization of Medical history of a patnt using NLP	Ms. Arathi P
Yashaswini K	1DA18CS193		
Yashika A Pawar	1DA18CS194		
Yeshaswini C	1DA18CS197		
Ascharya Soni	1DA18CS022	Pest Identification and Control using AR	Ms. Asha Rani K P
Anuraag Khare	1DA18CS020		
Darshan Balaji P S	1DA18CS040		
Sachin Verma	1DA18CS132		
Nikit Periwal	1DA18CS099	News curation, abstract and recommender app using DL Attention models	Ms. Asha Rani K P
Niranjan M	1DA18CS100		
Namrita kour	1DA18CS094		
Nirgund manvendra	1DA18CS101		
Binit Shrestha	1DA18CS031	Advance Movie Analytics App using Machine Learning and flutter	Mr. Suresha D
Amruth PN	1DA18CS013		
Sneha Spurthi	1DA18CS157		
Snehashree S	1DA18CS159		
Gnanavi B S	1DA18CS052	Smart Health Consulting System using ML	Mr. Praveena M V
Bharati C	1DA19CS400		
Jayashree D	1DA19CS404		
G Suhas	1DA18CS049	KISAN MITRA - Farmer's Indeed Partner	Mr. Praveena M V
Deepak S R	1DA18CS044		
Kartik	1DA18CS062		
S Dhanush	1DA18CS129		
Haripriya S Jorapur	1DA18CS055	Image Inpainting	Ms. Asha K N
Hruthvik L	1DA18CS059		
Kshithija S	1DA18CS070		
Lagidi Anusha	1DA18CS071		
Rajkumar S	1DA18CS122	Real-time speech emotion recognition	Ms. Asha K N
Ranjith V	1DA18CS125		
Ranganath Gowda S	1DA18CS124		
Prashanth H E	1DA18CS111		
Kruthika Mannur	1DA18CS069		

Name	USN	Project Title	Guide
Rijuta D	1DA18CS126	Liver disease prediction using ML	Ms. Veena Potdar
Sudhanva K S	1DA18CS195		
Varshitha S	1DA18CS182		
Nagesh	1DA19CS412	AUTOMATED BONE AGE ASSESSMENT WITH IMAGE REGISTRATION USING HAND X-RAY IMAGES	Ms. Arathi P
Pavithra D	1DA19CS413		
Poornima L	1DA19CS414		
Prajwal N R	1DA19CS415		
Sai Deepthi BP	1DA18CS135	Sign Language Conversion to Text and speech	Ms. Vinutha M S
Medhini Prabhakar	1DA18CS080		
Shivam Tiwari	1DA18CS146		
Prasad Hundekar	1DA18CS110		
Pushpa S Gotagunaki	1DA19CS417	Wireless Synchronisation of Robotic Arm	Ms. Vinutha M S
RanjanGowda S B	1DA19CS419		
Sandeep U S	1DA19CS421		
Shruti Channabasappa L	1DA19CS422		
Amrutha TA	1DA18CS014	Camouflage Multi-functional Army Robot (IOT)	Dr. Madhu B
Preetham DP	1DA18CS116		
Ankitha S	1DA18CS018		
Vaishnavi Naik	1DA19CS429		
Kishan Kandu	1DA18CS067	An approach of Deep Learning Neural Network model for Image Security	Dr. Madhu B
Manish Thapa	1DA18CS076		
Bishal Rauniyar	1DA18CS032		
Nitish Chaudhary	1DA18CS105		
Harshitha R	1DA18CS056	Mood Based music palyer using AI	Mr. Harish Kumar H C
Kasthuri B	1DA18CS063		
Keerthana V	1DA18CS064		
Keerthi K	1DA18CS065		
Kiran M H	1DA18CS066	Realtime adaptive traffic control system	Mr. Harish Kumar H C
Nagaraj	1DA18CS092		
Pavan L	1DA18CS106		
Puneeth SV	1DA18CS118		
Brunda P	1DA18CS034	Real time Remote Patient Monitoring using IOT	Ms. Jayalakshmi K
Ananya R	1DA18CS015		
Brunda N Maili	1DA18CS033		
Supreeth NG	1DA18CS164		
Usha Rani R	1DA18CS175	Communication system for incapacitative using eye blink	Ms. Jayalakshmi K
Vaishali B	1DA18CS177		
Vandana A S	1DA18CS179		
Wamiq yousuf	1DA18CS192		
Sushmitha K R	1DA18CS167	A Novel Technique For Autism Spectrum Disorder Classification.	Ms. Uma K M
Swethashree B	1DA18CS171		
Vaishnavi H A	1DA18CS178		
Tejaswini B R	1DA19CS428		
Swastik Gowda L	1DA18CS170	GOSSIP CHIMP - An Enterprise Grade Social Media Web Application	Ms. Uma K M
SUMANTH REDDY P	1DA19CS425		
SAHANA M	1DA18CS134		

Name	ID	Project	Guide
Mohammed saqlain	1DA18CS203		
Pratik Singh	1DA18CS114	A SIGN LANGUAGE CONTROL BASED ATM ACCESS SYSTEM FOR THE BLIND USING AI/ML	Ms. Sowmya C L
Rajdeep Bhagat	1DA18CS121		
Sushant Mani Tripathi	1DA18CS165		
Vanlaldika	1DA18CS180		
Meghana D H	1DA18CS081	Automated Patient Assistant through Artificial Intelligence	Me. Vinod Kumar K P
Neelambika	1DA18CS097		
Prateeksha P Kumtakar	1DA18CS112		
Rachana N	1DA18CS119		
Mohammed Ali	1DA18CS085	PlacedIn using react and .net	Ms. Lavanya Santhosh
Mohammed Muzammil Ahmed	1DA18CS086		
Mohammed Owais Gogi	1DA18CS087		
Muzafar Ahmed	1DA18CS090		
Mukundha U V	1DA18CS089	Risk prediction of chronic kidney disease using ML algorithms	Ms. Rashmi N
Rachna G S	1DA18CS120		
Ankitha R Desai	1DA18CS017		
Pavan S	1DA18CS107	Heart disease prediction using ML	Ms. Shanmuga priya R
Nishanth Adithyan S	1DA18CS103		
Manoj T	1DA18CS079		
Anish N	1DA18CS016		
Anupama A S	1DA18CS019	Crypto AI	Ms. Lavanya Santhosh
Deekshith S A	1DA18CS042		
Karthik S	1DA18CS061		
Shashank S	1DA18CS143	Self Driving Car	Dr. Leena Giri G
A Saiteja	1DA18CS136		
Sanjay Revanna	1DA18CS137		
Rohan A	1DA18CS128		
Apil Bist	1DA18CS021	Indian currency detection for visual impaired people using DL	Mr. Chidanandan V
Aarjeyan Shrestha	1DA18CS001		
Adarsh Kumar Dubey	1DA18CS006		
Amit Chaudhari	1DA18CS012		
Deepa V J	1DA18CS043	Time Series Analysis of Pollution data using Machine Learning in Bengaluru City	Ms. Veena A
Aishwarya R D	1DA18CS010		
Durgashree J	1DA18CS048		
Sahana C	1DA18CS133		
Abhishek H	1DA18CS004	AI Based Smart Examination Proctoring system	Ms. Shalini N
Bhargav G K	1DA18CS028		
Bheemaraya	1DA18CS029		
Divakar D	1DA18CS047		
Sharan Megha C R	1DA18CS140	WASTE MANAGAMENT SYSTEM USING IOT	Ms. Mamatha S K
Shilpa Rajesh Lingdal	1DA18CS144		
Shreya C N	1DA18CS148		
Shruthi D	1DA18CS151		
RAKSHITH GOWDA G M	1DA19CS418	Morse code based secured authentication system through AI	Mr. Suresha D

Name	ID	Project Title	Guide
SANAL KRISHNA U	1DA19CS420		
PRUTHVIRAJ S P	1DA19CS416		
Kashyap R	1DA19CS405		
Dhruva L	1DA18CS198	Design, Development and evaluation of Animal repelling System for Crop Protection based on embedded edge AI	Mr. Ravikumar J
Sujay Singh	1DA18CS202		
Vinay Kumar R	1DA19CS430		
Vivek D	1DA16CS160		
VIKAS KUMAR	1DA18CS185		
SWAPNIL	1DA18CS169	CleanPDF, An application to enhance the readability and cleanliness of scanned pdf's	Dr. K R Shylaja
SOURABH S	1DA18CS160		
VISHWA J MISHRA	1DA18CS190		
Lavanya M	1DA19CS408	Cattle counting in drone video using ML	Mr. Revanasidappa
Kusuma M	1DA19CS407		
Meghana R	1DA19CS410		
Manjunath N	1DA19CS409	Secure and Transparent crowdfunding using Blockchain	Ms. Rashmi N
Charan Naidu S	1DA19CS401		
Keshav Gowda G C	1DA19CS406		
Ganesh D Choubey	1DA19CS402		
Shivam Tiwari	1DA18CS145	Hybrid DCT DWT image and video compression for HEVC/H265	Mr. Vinod Kumar K P
Prakhar Kumar	1DA18CS109		
Shubham Saurav	1DA18CS152		
Avnish Kumar	1DA18CS024		
Chethan G	1DA18CS037	CryptoChart (Crypto Currencies Price Tracker)	Mr. Shamshekar patil
Darshan S	1DA18CS041		
Dinesh Kumar T P	1DA18CS046		
Gaurav Yadav	1DA18CS051		
Shashank Purohit	1DA18CS142	Online Real Time Collabrative Editor	Dr. Prabha R
Deepak Singh	1DA18CS045		
Himanshu Sharma	1DA18CS058		
Sachin Dev	1DA18CS131		
Mihir Kumar	1DA18CS084	DISEASE PREDICTION AND PRESCRIPTION SUGGESTION USING MACHINE LEARNING	Ms. Tejaswini K
Ashutosh Singh	1DA18CS023		
Himanshu Gupta	1DA18CS057		
Rishab Agarwal	1DA18CS127		
Vishal Ratnakar Kharvi	1DA18CS189	Supply Chain management In Agricultural Industry using Blockchain Technology	Ms. Sowmya C L
Dhanush K J	1DA18CS205		
Samarth GVR	1DA17CS146		
Vinay S	1DA18CS186		

Project Coordinators

Asha, KRS, VP, ARP, LS)

HOD, CSE
Professor & Head
Department of Computer Science & Engineering
Dr. Ambedkar Institute of Technology
Bangalore-560 056.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

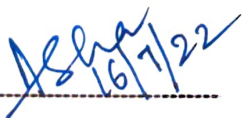(An Autonomous Institute, affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056
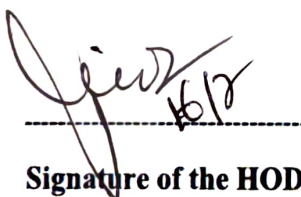
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the Project work, entitled **"Detection of Rheumatoid Arthritis using Deep Learning"** is a bonafide work carried out by **Ujval D R (1DA18CS173), Vignesh G (1DA18CS184), Vishwas K S (1DA18CS191)** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD, Dept. of CSE	PRINCIPAL
Mr. SRINIVASA A H	**Dr. SIDDARAJU**	**Dr. MEENAKSHI M**
Assoc. Prof, Dept. of CSE	HOD, Dept. of CSE	Principal
Dr. AIT	Dr. AIT	Dr. AIT

Viva-Voce Examination

Name of the Examiners   Signature with Date

1. Dr. Sunitha SB

2. Dr. Manoj Kumar. M   20/07/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Aided By Govt. of Karnataka

Department of Computer Science & Engineering

PROJECT REPORT
ON
"Real-time Speech Emotion Recognition"

(Subject code: 18CSP82)

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING
2021-2022

SUBMITTED BY

PRASHANTH H E [USN: 1DA18CS111]
RAJKUMAR S [USN: 1DA18CS122]
RANGANATHA GOWDA S [USN: 1DA18CS124]
RANJITH V [USN: 1DA18CS125]

UNDER THE GUIDANCE OF:

Mrs. ASHA K N
Asst. Professor, Dept. of CSE
Dr. Ambedkar Institute of Technology.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi, Accredited by NAAC, with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Certificate

Certified that the Main-Project work titled **"Real-time Speech Emotion recognition"** carried out by **Prashanth H E, Rajkumar S, Ranganatha Gowda S and Ranjith V** bearing the USNs **1DA18CS111, 1DA18CS122, 1DA18CS124, and 1DA18CS125** are bonafide students of Dr. Ambedkar Institute of Technology, Bengaluru, in partial fulfillment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Dr. Ambedkar Institute of Technology during the academic year 2021-22. It is certified that all correction/suggestions indicated during internal assessment have been incorporated in the report deposited in the department. It is further certified that this work has not been submitted to any university/organization for the award of any degree or diploma or certificate including a similar degree. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Mrs. Asha K N	Dr. Siddaraju	DR. M. Meenakshi,
Associate Professor,	Head of Department,	Principal,
Department of CSE,	Department of CSE,	
Dr.AIT, Bengaluru -56	Dr.AIT, Bengaluru -56	Dr.AIT, Bengaluru – 56
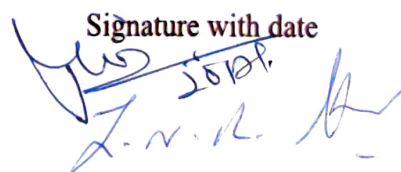
External Viva

Name of the Examiners   Signature with date

1. Dr. Siddaraju

2. Dr. J. N. R. Kumar

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

Aided By Govt of Karnataka

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Major Project Phase-II Report on

"Image Inpainting"

Submitted in partial fulfilment of the requirement for the award of the Degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted By

Haripriya Jorapur	1DA18CS055
Hruthvik L	1DA18CS059
Kshithija S	1DA18CS070
Lagidi Anusha	1DA18CS071

For the academic year 2021-22

Under the guidance of

Mrs. Asha K N

Assistant Professor, Dept. Of CSE

Dr. Ambedkar Institute of Technology, Bengaluru-56

Visvesvaraya Technological University

Jnana Sangama, Belagavi, Karnataka 590018.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certificate

This is to certify that the project phase 2 work, entitled **IMAGE INPAINTING** is a bonafide work carried out by **Haripriya S Jorapur (1DA18CS055)**, **Hruthvik L (1DA18CS059)**, **Kshithija S (1DA18CS070)**, **Lagidi Anusha (1DA18CS071)** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project phase 2 report has been approved as it satisfies the academic requirements in the respect of Project Phase 2 prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD	PRINCIPAL
Mrs. ASHA K N	**DR. SIDDARAJU**	**DR. MEENAKSHI M**
Asst. Prof., Dept. of CSE	HOD, Dept. of CSE	Principal
Dr. AIT	Dr. AIT	Dr. AIT

Viva-Voice Examination

Name of the Examiner   Signature with date

1. Dr. Siddaraju.

2. Dr. T. N. R. Kumar

20/7/22

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the Project Phase II work, **entitled "News curation, Abstract and Recommender App Using Deep Learning Attention Models"** is a bonafide work carried out by **Namrita kour (1DA18CS094), Nikit Periwal (1DA18CS099), Niranjan Mahesh (1DA18CS100), Nirgund Manavendra (1DA18CS101)** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project Phase II prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD	PRINCIPAL
ASHA RANI K. P.	**Dr. SIDDARAJU**	**Dr. MEENAKSHI M**
Assistant Professor,	Professor and HOD,	Principal,
Dept of CSE,	Dept of CSE,	Dr.AIT
Dr. AIT	Dr.AIT	

Viva-Voce Examination

Name of the Examiners

1. Dr. Harish .G

2. Dr. Manohar. M

Signature with Date
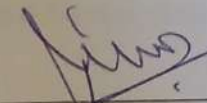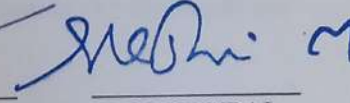
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the Project Phase II work, **entitled "News curation, Abstract and Recommender App Using Deep Learning Attention Models"** is a bonafide work carried out by **Namrita kour   (1DA18CS094), Nikit Periwal (1DA18CS099), Niranjan Mahesh (1DA18CS100), Nirgund Manavendra (1DA18CS101)** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project Phase II prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD	PRINCIPAL
ASHA RANI K. P.	**Dr. SIDDARAJU**	**Dr. MEENAKSHI M**
Assistant Professor,	Professor and HOD,	Principal,
Dept of CSE,	Dept of CSE,	Dr.AIT
Dr. AIT	Dr.AIT	

Viva-Voce Examination

Name of the Examiners

1. Dr. Harish G
2. Dr. Manohar M

Signature with Date

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution, Affiliated to Visvesvaraya Technological University, Belagavi)

Near Jnana Bharathi Campus, Mallathahalli, Bengaluru-560056

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Project Phase II work, entitled **"Pest Identification And Control Using Deep Learning And Augmented Reality"** is a bonafide work carried out by **DARSHAN BALAJI PS [1DA18CS040]** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project Phase II prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD	PRINCIPAL
ASHARANI K P	**Dr. SIDDARAJU**	**Dr. MEENAKSHI M**
Asst. Professor,	Professor and Head,	Principal,
Dept of CSE,	Dept of CSE,	Dr.AIT
Dr. AIT	Dr.AIT	

Viva-Voce Examination

Name of the Examiners

Signature with Date

1. Dr Harish G   20/7/22
2. Dr Manohar M   20/07/22

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the project   work, entitled **"FITNESS TRACKER USING AI POSE ESTIMATION"** is a bonafide work carried out by **ABHIMANYU KUMAR 1DA18CS003, ABHISHEK KUJUR 1DA18CS005 ,ADVAITH YESHODAR 1DA18CS007 , AMANPREET SINGH 1DA18CS011** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that allcorrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project   report has been approved as it satisfies the academic requirements in the respect of Project   prescribed for Bachelor of Engineering Degree.

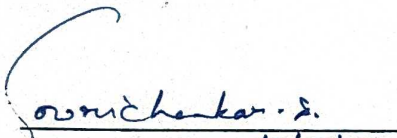|		
18/2/2022		
INTERNAL GUIDE	HOD Dept. of CSE	PRINCIPAL
DR. ASHA	**DR. SIDDARAJU**	**DR. MEENAKSHI M**
Associate Professor, Dept of CSE	HOD, Dept of CSE.	Principal
Dr. AIT	Dr. AIT	Dr. AIT
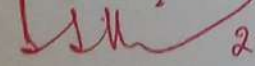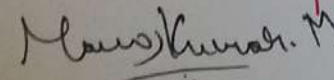
Viva-Voice Examination
Name of the Examiners

1.   20/7/22.

2.   Manojkumar. M

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, affiliated to Visvesvaraya Technological University, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056
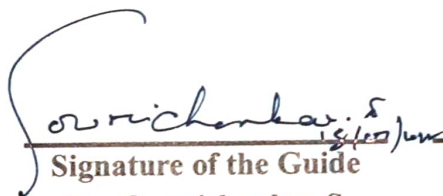
Aided By Govt. of Karnataka
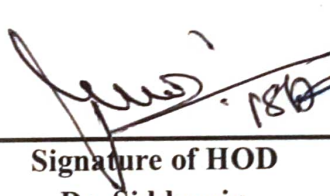
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Certificate
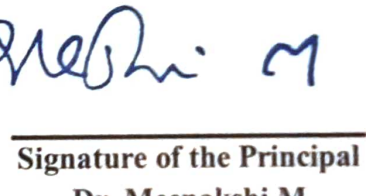
Certified that the Project work entitled "**Deep Learning Based Recognition of the Indian Medicinal Plant Species**" carried out by **Shashank M Kadiwal** bearing the USN **1DA18CS141, Venkatesh Hegde** bearing the USN **1DA18CS183** and **Shrivathsa NV** bearing the USN **1DA18CS150** are bonafide students of **Dr. Ambedkar Institute of Technology, Bengaluru**, in partial fulfilment of the award of **Degree in Bachelor of Engineering in Computer Science and Engineering** of Dr. Ambedkar Institute of Technology during the academic year 2021-22. It is certified that all the corrections/suggestions indicated during Internal Assessment have been incorporated in the project report deposited in the department. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide	Signature of HOD	Signature of the Principal
Dr. Gowrishankar S	Dr. Siddaraju	Dr. Meenakshi M
Professor,	Professor and Head,	Principal,
Department of CSE,	Department of CSE	Dr.AIT, Bengaluru-56
Dr.AIT, Bengaluru-56	Dr.AIT, Bengaluru -56	

Viva-Voce Examination

Name of the Examiners

Signature with Date

1. Dr. Smithi SB

20/7/22

2. Dr. Manoj Kumar. M

20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
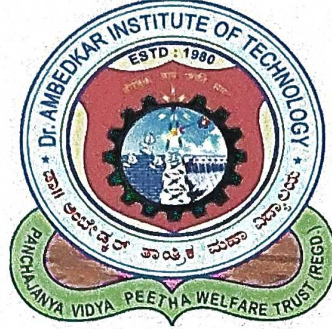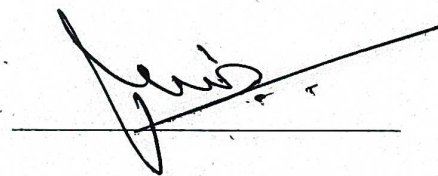
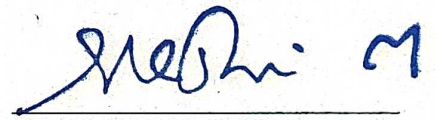Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the Project Phase II work, entitled "**Prediction of Knee Replacement Using Deep Learning**" is a bonafide work carried out by **S G Anushka (1DA18CS130), Shrimad (1DA18CS149), Sindhu N (1DA18CS155), Snehananda H A (1DA18CS158)** in the partial fulfillment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project Phase II prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD	PRINCIPAL
Dr. GOWRISHANKAR S	**Dr. SIDDARAJU**	**Dr. MEENAKSHI M**
Professor,	Professor and HOD,	Principal,
Dept of CSE,	Dept of CSE,	Dr.AIT
Dr. AIT	Dr.AIT	

Viva-Voce Examination

Name of the Examiners

Signature with Date

1. Dr. Manoj Kumar. M

2. Dr. Smithi Sb

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi, Accredited by NAAC with 'A' Grade)

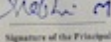**Near Jnana Bharathi Campus, Bengaluru – 560056**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certificate

Certified that the Major-Project work titled **"WeClean: Garbage Disposal Management System for Clean City"** carried out by **MANJUNATH K, MANOHAR K B, NAGABHUSHAN K M and NITEESHMURTHY BHAT** bearing the USNs **1DA18CS077, 1DA18CS078, 1DA18CS091** and **1DA18CS104** respectively are bonafide students of Dr. Ambedkar Institute of Technology, Bengaluru, in partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Dr. Ambedkar Institute of Technology during the academic year 2021-22. It is certified that all corrections/suggestions indicated during Internal Assessment have been incorporated in the Major- Project report deposited in the department. The Major-Project report has been approved as it satisfies the academic requirements in respect of Major-Project work prescribed for the said Degree.

Signature of the Guide
Dr. Harish G,
Associate Professor,
Department of CSE,
Dr. AIT, Bengaluru -
56.

Signature of the HOD
Dr. Siddaraju,
Professor and HEAD,
Department of CSE,
Dr. AIT, Bengaluru - 56.

Signature of the Principal
Dr. M. Meenakshi,
Principal,
Dr. AIT, Bengaluru - 56.

Viva-Voce Examination

Name of the Examiners

1. Dr. Harish G

2. Dr. Manohar .M

Signature with Date

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Aided By Govt of Karnataka

CERTIFICATE

This is to certify that the project work entitled "**Cybersecurity Threats to Bitcoin Exchanges: Adversary Exploitation and Laundering Techniques**" is a bonafide work carried out by Deepthi TG(1DA17CS041), Dhanuja N (1DA17CS043), Sushmitha J(1DA19CS426), Swati S Math(1DA19CS427) in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Main Project prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD Dept. of CSE	PRINCIPAL
Dr. Harish.G	**Dr. Siddaraju**	**Dr.Meenakshi M**
Assoc. Prof., Dept of CSE	HOD .Dept of CSE,	Principal
Dr. AIT	Dr. AIT	Dr. AIT

INTERNAL EXAMINER

EXTERNAL EXAMINER

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

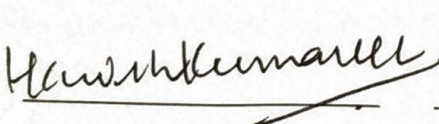Near Jnana Bharathi Campus, Bengaluru – 560056

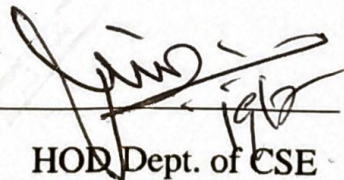## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the project work, entitled **"MOOD BASED MUSIC PLAYER USING AI"** is a bonafide work carried out by Harshitha R bearing USN 1DA18CS056, Kasthuri B bearing USN 1DA18CS063, Keerthana V bearing USN 1DA18CS064 and Keerthi K bearing USN 1DA18CS065 in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.
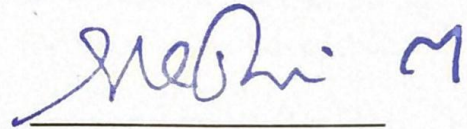
INTERNAL GUIDE	**HOD Dept. of CSE**	**PRINCIPAL**
Harish Kumar H C	**Dr. Siddaraju**	**Dr. Meenakshi M**
Assistant Professor,	HOD, Dept. of CSE	Principal
Dept. of CSE	Dr. AIT	Dr. AIT
Dr. AIT		

Viva - Voce Examination

Name of the Examiners   **Signature with Date**

1. Rudramurthy VC   20/2/22

2. Dr. Leena Giri G.   20/2/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the project phase II work, entitled **"Real-time adaptive traffic control system"** is a bonafide work carried out by Kiran M H bearing USN 1DA18CS066, Nagaraj Y J bearing USN 1DA18CS092, Pavan L M bearing USN 1DA18CS106 and Puneeth S V bearing USN 1DA18CS118 in the partial fulfillment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technology University, Belgaum during the year 2021-2022. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project phase II report has been approved as it satisfies the academic requirements in the respect of Project Phase II prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE

Mr. Harish Kumar H C

Asst. Prof., Dept of CSE

Dr. AIT

HOD Dept. of CSE

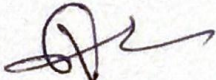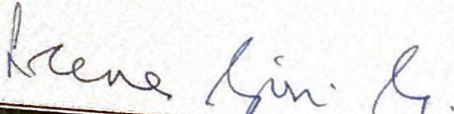**Dr. Siddaraju**

HOD, Dept of CSE,

Dr. AIT

PRINCIPAL

Dr. Meenakshi M

Principal

Dr. AIT

Signature of Examiner

1.

2.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Near Jnana Bharathi Campus, Mallathally, Bengaluru-560 056

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the main project work entitled **"Real time Remote patient monitoring system "** is a bonafied work carried out by **Ananya R [1DA18CS015], Brunda N Maili [1DA18CS033], Brunda P [1DA18CS034], Supreeth NG [1DA18CS164]** in the partial fulfillment for the award of Degree of Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22.It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE

Prof. Jayalakshmi K

Asst. Prof, Dr. A.I.T

HOD Dept of CSE

Dr. Siddaraju

Dr. A.I.T

External Viva

PRINCIPAL

Dr. Meenakshi M

Dr. A.I.T

Signature with Date
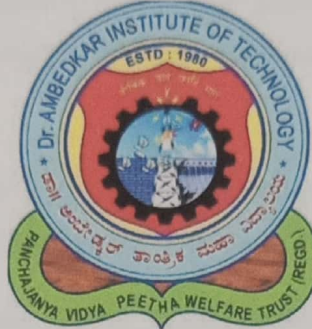
Name of the examiners

1. Rudramurthy vc

2. Dr. Leena Giri G.
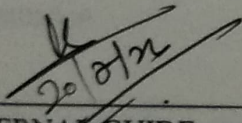
Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the Project work, entitled **"Communication System for Incapacitated using Eye Blink"** is a bonafide work carried out by **Usha Rani R (1DA18CS175), Vaishali B (1DA18CS177), Vandana A S (1DA18CS179), Wamiq Yousuf (1DA18CS192)** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.

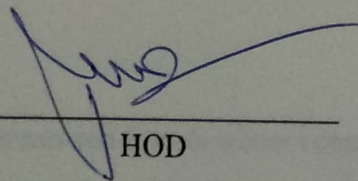| INTERNAL GUIDE	HOD Dept. of CSE	PRINCIPAL
Mrs. JAYALAKSHMI K	**Dr. SIDDARAJU**	**Dr. MEENAKSHI M**
Asst. Prof, Dept. of CSE	HOD, Dept. of CSE	Principal
Dr. AIT	Dr. AIT	Dr. AIT

Viva-Voce Examination

Name of the Examiners   Signature with Date

1. Rudramurthy v2   20/7/22

2. Dr. Leena Giri G.   20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certificate

This is to certify that the project phase 2 work, entitled **PlacedIn Using React and .Net** is a bonafide work carried out by **Mohammed Owais Gogi (1DA18CS087)** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project phase 2 report has been approved as it satisfies the academic requirements in the respect of Project Phase 2 prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD	PRINCIPAL
Mrs. Lavanya Santhosh	**Dr. Siddaraju**	**Dr. Meenakshi M**
Asst. Prof., Dept. of CSE	HOD, Dept. of CSE	Principal
Dr. AIT	Dr. AIT	Dr. AIT
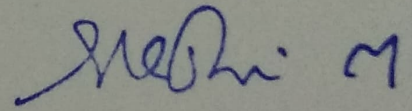
Viva-Voice Examination

Name of the Examiner

Signature with date

1. Rudramurthyvc

2. Dr. Leena Giri G.
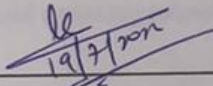
Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi,
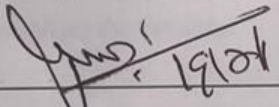
Aided by Government of Karnataka)

Near Jnana Bharathi Campus, Malathahalli, Bengaluru - 560 056.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

<u>CERTIFICATE</u>

This is to certify that the project phase II work, entitled **"Crypto AI: Digital Nostalgic art generation using GAN and creation of NFT using Blockchain"** is a bonafide work carried out by **Karthik S [1DA18CS061]** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technology University, Belgaum during the year 2021-2022. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Main Project prescribed for Bachelor of Engineering Degree.
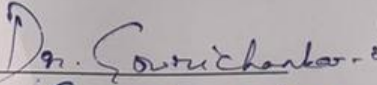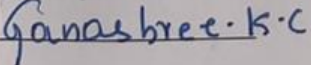
INTERNAL GUIDE	HOD Dept. of CSE	PRINCIPAL
Ms. Lavanya Santhosh	Dr. Siddaraju	Dr. Meenakshi M
Assistant Professor	HOD	Principal
Dept. of CSE	Dept. of CSE	Dr. AIT
Dr. AIT	Dr. AIT	
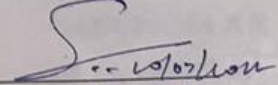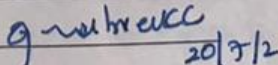
External Examiner

1. Dr. Gourichandra-s

2. Ganashree-K-C

Signature of Examiner

20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Near Jnana Bharathi Campus, Bengaluru – 560056

Aided By Govt. of Karnataka

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A PROJECT REPORT ON

"TIME SERIES ANALYSIS OF POLLUTION DATA USING MACHINE LEARNING"

Submitted in partial fulfilment of the requirement for the award of the Degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted By

AISHWARYA R D	**1DA18CS010**
SAHANA C	**1DA18CS133**
DEEPA V J	**1DA18CS043**
DURGA SHREE J	**1DA18CS048**

For the academic year 2021-22

Under The Guidance Of

Mrs. Veena A

Assistant Professor,
Dept. Of CSE,Dr. AIT,

Bengaluru-56

Visvesvaraya Technological University

Jnana Sangama, Belgavi, Karnataka 590018

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, affiliated to Visvesvaraya Technological University, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

Aided By Govt. of Karnataka

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Certificate

Certified that the Project work entitled **"Time Series Analysis of Pollution Data using Machine Learning"** carried out by **Aishwarya R D** bearing the USN **1DA18CS010**, **Deepa V J** bearing the USN **1DA18CS043**, **Durga Shree J** bearing the USN **1DA18CS048** and **Sahana C** bearing the USN **1DA18CS133** are bonafide students of **Dr. Ambedkar Institute of Technology**, Bengaluru, in partial fulfilment of the award of **Degree in Bachelor of Engineering in Computer Science and Engineering** of Dr. Ambedkar Institute of Technology during the academic year 2021-22. It is certified that all the corrections/suggestions indicated during Internal Assessment have been incorporated in the project report deposited in the department. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide	Signature of HOD	Signature of the Principal
Mrs. Veena A	**Dr. Siddaraju**	**Dr. M Meenakshi**
Assistant Professor,	Professor and Head,	Principal,
Department of CSE,	Department of CSE	Dr.AIT, Bengaluru-56
Dr.AIT, Bengaluru-56	Dr.AIT, Bengaluru -56	

Viva-Voce Examination

Name of the Examiners

Signature with Date

1. Dr. Gowrishankar .B

2. Ganashree. K.c

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

[An Autonomous Institution, Affiliated to VTU, Belgaum and Aided by Government of Karnataka] Near Jnana Bharathi Campus, Mallatahalli, Bangalore-560 056

Aided By Govt. of Karnataka

PROJECT REPORT

On

"AN APPROACH OF DEEP LEARNING NEURAL NETWORK MODEL FOR IMAGE SECURITY"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING

SUBMITTED BY

BISHAL RAUNIYAR	1DA18CS032
KISHAN KANDU	1DA18CS067
MANISH THAPA	1DA18CS076
NITISH CHAUDHARY	1DA18CS105

Under the Guidance of

Dr. Madhu B
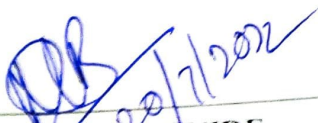Assistant Professor,

Department of C.S.E, Dr. A.I.T

2021 - 22

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certificate

This is to certify that the project phase 2 work, entitled **"An Approach of Deep Learning Neural Network Model for Image Security"** is a bonafide work carried out by **Bishal Rauniyar[1DA18CS032], Kishan Kandu[1DA18CS067], Manish Thapa[1DA18CS076], Nitish Chaudhary[1DA18CS105]** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project phase 2 report has been approved as it satisfies the academic requirements in the respect of Project Phase 2 prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE
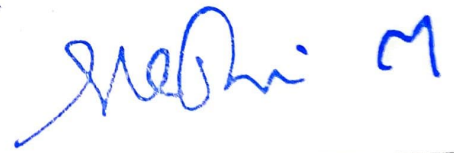
Dr. Madhu B

Asst. Prof., Dept. of CSE

Dr. AIT

HOD

Dr. Siddaraju

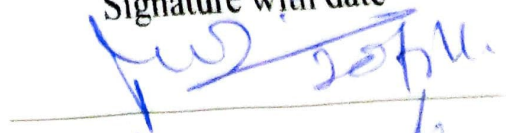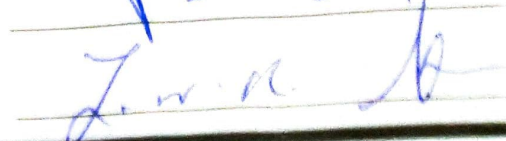HOD, Dept. of CSE

Dr. AIT

PRINCIPAL

Dr. Meenakshi M

Principal

Dr. AIT

Viva-Voice Examination

Name of the Examiner

1. Dr. Siddaraju

2. Dr. T. N. R Kumar

Signature with date

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

[An Autonomous Institution, Affiliated to VTU, Belgaum and Aided by Government of Karnataka]

Near Jnana Bharathi Campus, Mallathalli, Bangalore-560 056

Aided By Govt. of Karnataka

CERTIFICATE

Department of Computer Science & Engineering

This is to certify that the project work, entitled "SMART WASTE MANAGEMENT SYSTEM" is a bonafide work carried out by **SHARAN MEGHA C R [1DA18CS140], SHILPA RAJESH LINGADAL [1DA18CS144], SHREYA C N [1DA18CS148]** and **SHRUTHI D [1DA18CS151]** in the partial fulfillment for the award of Degree of Bachelor of Engineering in Computer Science & Engineering of Visvesvarayya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.

Mamatha S.K

_____
Internal Guide

Mrs. MAMATHA S K

Assisstant Professor

Department of CSE, Dr. AIT

_____
Prof. & Head Dept. of CSE

Dr. SIDDARAJU

Professor and Head

Department of CSE, Dr. AIT

_____
PRINCIPAL

Dr. M. Meenakashi

Principal

Dr. AIT

Internal Examiner
_____
/ω/ 10/07/22

External Examiner
Ganashree.K.C

20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi, Accredited by NAAC, with 'A' Grade)

Near Jnana Bharathi Campus, Mallathahalli, Bangalore – 560056

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Certificate

This is to certify that the project work, entitled **"Wireless Synchronization of Robotic Arm"** is a bonafide work carried out by **PUSHPA S GOTAGUNAKI [1DA19CS417], RANJAN GOWDA S B [1DA19CS419], SANDEEP U S [1DA19CS421], and SHRUTI CHANNABASAPPA LAMANI [1DA19CS422]** in the partial fulfillment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of project prescribed for Bachelor of Engineering Degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Mrs. Vinutha M S	Dr. Siddaraju	Dr. M. Meenakshi
Assisstant Professor,	Professor and Head,	Principal,
Department of CSE,	Department of CSE,	Dr. AIT
Dr.AIT	Dr.AIT	

External Examiners

Name of the examiners	Signature with Date
1. Dr. Siddaju	
2. Dr. T.N.R. Kumar	

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

[An Autonomous Institution, Affiliated to VTU, Belgaum and Aided by Government of Karnataka]

Near Jnana Bharathi Campus, Mallathalli, Bangalore-560 056

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Aided By Govt. of Karnataka

Certificate

This is to certify that the project work, entitled **"Sign Language Conversion To Text and Speech"** is a bonafied work carried out by **MEDHINI PRABHAKAR [1DA18CS080], PRASAD HUNDEKAR [1DA18CS110] SAI DEEPTHI B P[1DA17CS135] and SHIVAM TIWARI [1DA18CS146]** in the partial fulfilment for the award of Degree of Bachelor of Engineering in Computer Science & Engineering of Visvesvarayya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.

Internal Guide

Mrs. VINUTHA MS
Assistant Professor. Dept. of CSE,
Dr. AIT

Prof. & Head Dept. of CSE

Dr. SIDDARAJU
Dr. AIT

PRINCIPAL

Dr. M. MEENAKSHI
Dr. AIT

External viva

Name of the examiners   Signature with Date

1. Dr. Siddaiyy

2. Dr. T.N.R. Kumar

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi, Accredited by NAAC, with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

Aided By Govt. of Karnataka

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certificate

Certified that the Major Project work titled **"Kisan Mitra - Comprehensive Application for Farmers"** carried out by **DEEPAK S R, G SUHAS, KARTIK** and **DHANUSH S** bearing the USN's **1DA18CS044, 1DA18CS049, 1DA18CS062** and **1DA18CS129**, are bonafide students of **Dr. Ambedkar Institute of Technology, Bengaluru,** in partial fulfilment for the award of **Degree in Bachelor of Engineering in Computer Science and Engineering** of Dr. Ambedkar Institute of Technology during the academic year 2020-21. It is certified that all corrections/suggestions indicated during Internal Assessment have been incorporated in the Major Project report deposited in the department. The Major Project report has been approvedas it satisfies the academic requirements in respect of Major Project work prescribed for the said Degree.

Signature of the Guide
Mr. Praveena M V
Assistant Professor,
Department of CSE,
Dr. AIT, Bengaluru – 56.

Signature of the HOD
Dr. Siddaraju
Professor and HEAD,
Department of CSE,
Dr. AIT, Bengaluru – 56.

Signature of the Principal
Dr. M. Meenakshi
Principal,
Dr. AIT, Bengaluru – 56.

Name of the Examiners   Signature with Date

1.

2.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi Accredited by NAAC, with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certificate

Certified that the Major Project work titled "Smart Health Consulting System Using Machine Learning" carried out by GNANAVI B.S, BHARATHI C,JAYASHREE D bearing the USNs 1DA18CS052, 1DA19CS400, 1DA19CS404 are bonafide students of Dr. Ambedkar Institute of Technology, Bengaluru, in partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Dr. Ambedkar Institute of Technology during the academic year 2021-22. It is certified that all corrections/suggestions indicated during Internal Assessment have been incorporated in the Major Project report deposited in the department. The Major Project report has been approved as it satisfies the academic requirements in respect of Major Project work prescribed for the said Degree.

Signature of the Guide
Mr. Praveena M V
Associate Professor,
Department of CSE,
Dr. AIT, Bengaluru -56.

Signature of the HOD
Dr. Siddaraju,
Dean (A),
Professor and HEAD,
Department of CSE,
Dr. AIT, Bengaluru – 56.

Signature of the Principal
Dr. M.Meenakshi
Principal,
Dr. AIT, Bengaluru – 56.

Viva-Voice Examination
Name of the Examiners
1.
2.

Signature with Date

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

[An Autonomous Institution, Affiliated to VTU, Belgaum and Aided by Government of Karnataka]

Near Jnana Bharathi Campus, Mallatahalli, Bangalore-560 056

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the project work, entitled **"IoT Based Smart Energy Meter Monitoring and Theft Detection"** is abonafied work carried out by **S RANJITHA [1DA15CS109], S RAKSHITA [1DA15CS108], AADARSH GURUNG [1DA16CS164]** in the partial fulfillment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-2022. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	**HOD Dept. of CSE**	**PRINCIPAL**
Mr. Praveena M V	Dr. Siddaraju	Dr.M.Meenakshi
Associate Professor,		M.Tech, Ph.D(IISC)
Dept. Of C.S.E ,DR.A.I.T		

External Viva

Name of the examiners
Signature with Date

1._____

2._____

Signature with Date

1._____

2._____

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi, Accredited by NAAC, with 'A' Grade)
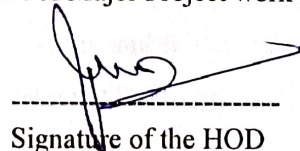
Near JnanaBharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

𝕮ertificate

Certified that the Major Project work titled "Cattle Counting" carried out by KUSUMA M, LAVANYA M and MEGHANA R bearing the USNs 1DA19CS407, 1DA19CS408 and 1DA19CS410, are bonafide students of Dr.Ambedkar Institute of Technology, Bengaluru, in partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Dr. Ambedkar Institute of Technology during the academic year 2021-2022. It is certified that all corrections/suggestions indicated during Internal Assessment have been incorporated in the Major Project report deposited in the department. The Major Project report has been approved as it satisfies the academic requirements in respect of Major Project work prescribed for the said Degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Mr. Revanasiddappa	Dr. Siddaraju,	Dr.Meenakshi,
Assistant Professor,	Dean (A),	Principal,
Department of CSE,	Professor and HEAD,	Dr. AIT, Bengaluru – 56.
Dr. AIT, Bengaluru -56.	Department of CSE,	
	Dr. AIT, Bengaluru – 56.	

Viva-Voce Examination

Name of the Examiners

1. Dr. Nandini N

2. Dr. Madhu B.R

Signature with Date

20/7/22

20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

An Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi, Accredited by NAAC and ISO Certified

Near Jnana Bharathi Campus, Bengaluru – 560056

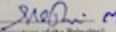
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Certificate

Certified that the Project work entitled **"VEHICLE AUTOMATION FOR SMART AND SAFE DRIVING"** carried out by **JYOTHI G, LAVANYA V** and **NIVEDITHA V** bearing the USNs **1DA18CS411, 1DA18CS413** and **1DA17CS182** is a bonafide student of **Dr. Ambedkar Institute of Technology, Bengaluru**, in partial fulfilment for the award of **Degree in Bachelor of Engineering in Computer Science & Engineering** of Dr. Ambedkar Institute of Technology during the academic year 2020-21. It is certified that all the corrections/suggestions indicated during Internal Assessment have been incorporated in the Project report deposited in the department. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Dr Smitha Shekar B
Associate Professor,
Department of CSE,
Dr.AIT, Bengaluru -56.

Signature of the HOD
Dr.Siddaraja,
Professor and HEAD,
Department of CSE,
Dr.AIT, Bengaluru – 56.

Signature of the Principal
Dr.Meenakshi M,
Principal,
Dr.AIT, Bengaluru – 56.

Viva-Voce Examination

Name of the Examiners   Signature with Date

1.

2.

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

Near Jnana Bharathi Campus, Mallathalli, Bengaluru - 560 056

(An Autonomous Institution, Affiliated to VTU, Belagaum and Aided by Government of Karnataka)

CERTIFICATE

This is to certify that the Project entitled "**Liver Disease Prediction using Machine Learning**" is a bonafide work carried out by Kruthika Mannur [1DA18CS069], Rijuta D [1DA18CS126], Varshitha S [1DA19CS182], Sudhanva K S [1DA16CS195] in the partial fulfilment of the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all the corrections/suggestions indicated for the Internal assessment have been incorporated in the report deposited in the department library. The seminar report has been approved as it satisfies the academic requirements in the respect of Technical Seminar prescribed for Bachelor of Engineering Degree.

Internal Guide	HOD	Principal
Mrs.Veena Potdar	**Dr. Siddaraju**	**Dr. Meenakshi M**
Associate Professor	Head of the Department	Principal
Dept. of CSE, Dr AIT	Dept. of CSE, Dr AIT	Dr. AIT

External Viva

Name of the Examiners

Signature with Date

1. Dr. Sidalaju

2. Dr. T. N. R. Kumar
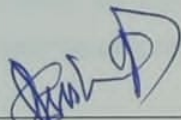
Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

[An Autonomous Institute, Affiliated to VTU, Belgaum and Sided by Government of Karnataka]
Near Jnana Bharathi Campus, Mallathalli, Bengaluru-560056

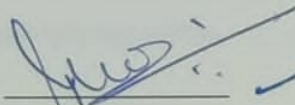## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project work, entitled " **Morse Code Based Secure Authentication using AI**" is a bonafied work carried out by **Kashyap R [1DA19CS405], Pruthviraj SP [1DA19CS416], Rakshith Gowda GM[1DA19CS418], Sanal Krishna U [1DA19CS420]** in the partial fulfilment for the award of Degree of Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.

Signature of the Guide   Signature of the HOD   Signature of the Principal
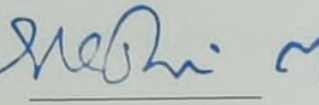
Mr. Suresha D   Dr. Siddaraju   Dr. MEENAKSHI M

Professor & Head
Department of Computer Science & Engineering
Dr. Ambedkar Institute of Technology
Bengalore-560 056.

Assocaite.Prof, Dept of CSE   HOD, Dept of CSE   Principal

Dr.AIT, Bangalore-56   Dr.AIT, Bangalore-56   Dr.AIT, Bangalore-56
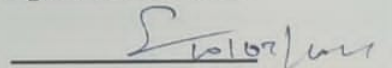
External Viva

Name of the examiners   **Signature with Date**

1. Dr. Coornichakar N

2. Ganeshree.K.C   20/7/22

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

[An Autonomous Institution, Affiliated to VTU, Belgaum and Aided by Government of Karnataka]

Near Jnana Bharathi Campus, Mallathahalli, Bangalore-560 056

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the project work, entitled **"ADVANCE MOVIE ANALYTICS APP USING MACHINE LEARNING AND FLUTTER"** is a bonafide work carried out by **AMRUTH PN [1DA18CS013], BINIT SHRESTHA [1DA18CS031], SNEHA SPURTHI [1DA18CS157], SNEHASHREE S [1DA18CS159]** in the partial fulfillment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project prescribed for Bachelor of Engineering Degree.

Signature of Guide	Signature of H.O.D	Signature of Principal
Mr. Suresha D	**Dr. Siddaraju**	**Dr. Meenakshi M**
Associate Professor,	Professor & H.O.D,	Principal,
Dept. of CSE,	Dept. of CSE,	Dr. A.I.T
Dr. A.I.T	Dr. A.I.T	

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)
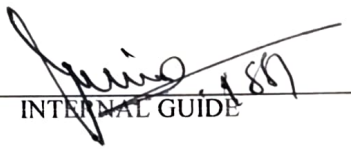
Near Jnana Bharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

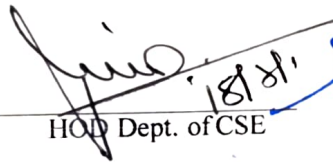Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the project work, entitled **"Diagnosis of COVID-19 from Chest X-rays & CT Scans using Complex Transfer Learning Algorithms"** is a bonafide work carried out by **V Rahul, Chandan Kumar Singh, Sumukh M, Riteesh M Mandi** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project phase 2 report has been approved as it satisfies the academic requirements in the respect of Project Phase 2 prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD Dept. of CSE	PRINCIPAL
Dr. Siddaraju	**Dr. Siddaraju**	**Dr. Meenakshi M**
Prof. & Head, Dept. of CSE	Prof. & Head, Dept. of CSE	Principal
Dr.AIT	Dr.AIT	Dr.AIT
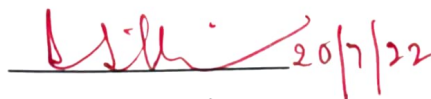
Internal Examiner _____ 20/7/22

External Examiner _____

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certificate

Certified that the Major-Project work titled *"Smart Parking System"* carried out by **KRUSHIK N K, LIKITH R, NANDAN T S** and **NIKHIL MEHRA** bearing the USNs **1DA18CS068, 1DA18CS073, 1DA18CS095** and **1DA18CS098** respectively are bonafide students of Dr. Ambedkar Institute of Technology, Bengaluru, in partial fulfilment for the award of Degree in **Bachelor of Engineering in Computer Science and Engineering** of Dr. Ambedkar Institute of Technology during the academic year 2021-22. It is certified that all corrections/suggestions indicated during Internal Assessment have been incorporated in the Major- Project report deposited in the department. The Major-Project report has been approved as it satisfies the academic requirements in respect of Major-Project work prescribed for the said Degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Dr. Smitha Shekar B,	Dr. Siddaraju,	Dr. M. Meenakshi,
Associate Professor,	Professor and HEAD,	Principal,
Department of CSE, Dr.	Department of CSE,	Dr. AIT, Bengaluru – 56.
AIT, Bengaluru – 56.	Dr. AIT, Bengaluru – 56.	

Viva-Voce Examination

Name of the Examiners   Signature with Date

1.

2.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Near Jnana Bharathi Campus, Bengalooru-560 056.

(An Autonomous Institution, Aided by Government of Karnataka)

CERTIFICATE

This is to certify that the project phase II work, entitled **"Smart Classroom Attendance Management System using Face recognition and Raspberry Pi"** is a bonafide work carried out by Aishwarya B R bearing USN 1DA18CS009, Badri Narayan S bearing USN 1DA18CS025 and Chinmayashree K B bearing USN 1DA18CS038 in the partial fulfillment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Dr.Ambedkar Institute of Technology during the academic year 2021-2022. It is certified that all corrections/suggestions indicated during internal assessment have been incorporated in the report deposited in the department. This project phase II report has been approved as it satisfies the academic requirements in the respect of Project Phase II prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE   HOD Dept. of CSE   PRINCIPAL

Dr. Smitha Shekar B   **Dr. Siddaraju**   **Dr.Meenakshi M**

Assoc. Prof., Dept of CSE   HOD, Dept of CSE   Principal

Dr. AIT   Dr. AIT   Dr. AIT

External Examiner   Signature of Examiner

1. Dr. Manoj Kumar M

2. Dr. Swathi S B

DR. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution, Affiliated to Visvesvaraya Technological University, Belagavi)

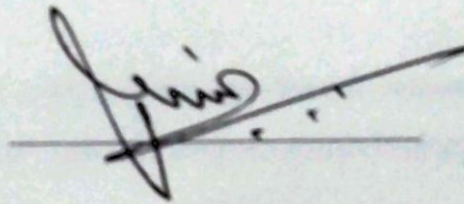Near Jnana Bharathi Campus, Mallathahalli, Bengaluru-560056

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

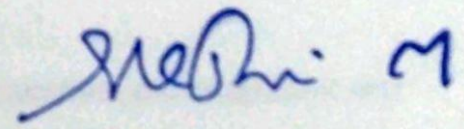This is to certify that the Project Phase II work, entitled "Hybrid Image and Video Compression Using DCT-DWT Techniques" is a bonafide work carried out by AVNISH KUMAR (1DA18CS024), PRAKHAR KUMAR (1DA18CS109), SHIVAM TIWARI (1DA18CS145), SHUBHAM SAURAV (1DA18CS152)in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Project Phase II prescribed for Bachelor of Engineering Degree.

INTERNAL GUIDE	HOD	PRINCIPAL
MR. VINODKUMAR KP	Dr. SIDDARAJU	Dr. MEENAKSHI M
Asst. Professor,	Professor and HOD,	Principal,
Dept of CSE,	Dept of CSE,	Dr.AIT
Dr. AIT	Dr.AIT	

Viva-Voce Examination

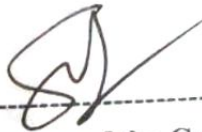Name of the Examiners

Signature with Date

1.

2.

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institute, Affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)

Near Jnana Bharathi Campus, Bengaluru – 560056

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Aided By Govt. of Karnataka

CERTIFICATE

This is to certify that the Major Project work, entitled **"Automated Patient Assistance Through AI"** is a bonafide work carried out by **Meghana D H(1DA18CS081)**, **Neelambika (1DA18CS097)**, **Prateeksha P Kumtakar (1DA18CS112)** , **Rachana N (1DA18CS119)** in the partial fulfilment for the award of Degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the year 2021-22. It is certified that all corrections/suggestions indicated for the internal assessment have been incorporated in the report deposited in the departmental library. This project report has been approved as it satisfies the academic requirements in the respect of Major Project prescribed for Bachelor of Engineering Degree.

19/07/2022

INTERNAL GUIDE	HOD	PRINCIPAL
Vinod Kumar K P	**Dr. SIDDARAJU**	**Dr. MEENAKSHI M**
Assistant Professor,	Professor and HOD,	Principal,
Dept of CSE,	Dept of CSE,	Dr.AIT
Dr. AIT	Dr.AIT	

Viva-Voce Examination

Name of the Examiners

Signature with Date

1. Rudramurthy v2

2. Dr. Leena Giri G.

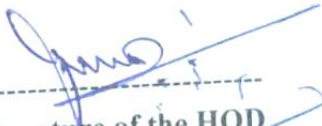**Near Jnana Bharathi Campus, Bengaluru – 560056**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Certificate

Certified that the Project work entitled "Virtual Assistant for Dr. AIT using AI Techniques" carried out by Nikhita Kalburgikar(1DA17CS094), Nikita Ashok Ashet(1DA17CS095), Paavani Komarla(1DA17CS103), Pooja B S(1DA17CS108) is a bonafide student of **Dr. Ambedkar Institute of Technology, Bengaluru,** in partial fulfilment for the award of **Degree in Bachelor of Engineering in Computer Science and Engineering** of Dr. Ambedkar Institute of Technology during the academic year 2020-21. It is certified that all the corrections/suggestions indicated during Internal Assessment have been incorporated in the Project report deposited in the department. The Project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Dr. Shylaja K R,
Department of CSE,
Dr.AIT, Bengaluru -56.

Signature of the HOD
Dr. Siddaraju,
Dean (A),
Professor and HEAD,
Department of CSE,
Dr.AIT, Bengaluru – 56.

Signature of the Principal
Dr. Meenakshi M,
Principal,
Dr.AIT, Bengaluru – 56.

Viva-Voce Examination

Name of the Examiners

Signature with Date

1.

2.

1