

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING,

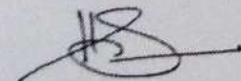
THIRUVANANTHAPURAM-695018.



CERTIFICATE


This is to certify that the report entitled **Nectar Quest: A Hummingbird Race** submitted by **Chris Thomas** (SCT19CS020), **Jyothika N** (SCT19CS036) and **Sidharth Saipreeth** (SCT19CS050) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

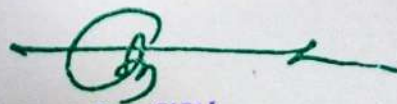

Head of the Department


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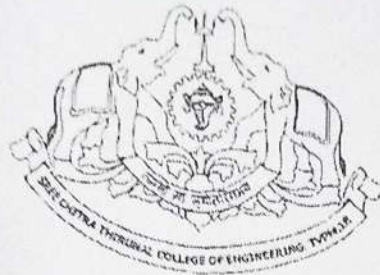

Project Coordinator


External Supervisor


PRINCIPAL
Sree Chitra Thirunal
College of Engineering
Trivandrum - 18

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SREE
CHITRA THIRUNAI COLLEGE OF ENGINEERING TRIVANDRUM

2019 - 23



CERTIFICATE

This is to certify that the report entitled Traffic Sign Detection Using Neural Network submitted by AHALYA (SCT19CS004), ALGA SIBI (SCT19CS009) & VISHNU H (SCT19CS061) under the guidance of Prof. SOJA SALIM, to the APJ Abdul Kalam Technological University in partial fulfilment of the B.Tech. degree in Computer Science and Engineering is a bonafide record of the project work carried out by him under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Internal Supervisor

External Supervisor

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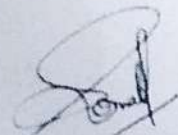
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Trivandrum - 18


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SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING,
THIRUVANANTHAPURAM-695018.




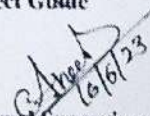
CERTIFICATE

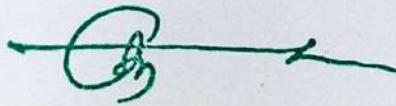
This is to certify that the report entitled **Traffic Sign Recognition using Generative Adversarial Networks** submitted by **Karthik K Nair (SCT19CS038)**, **Vaishak S (SCT19CS058)** **Ramsankar I (SCT19CS046)**, to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


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THIRUVANANTHAPURAM-695018.



CERTIFICATE

This is to certify that the report entitled **Multi-Document Summarization** submitted by **Binita Benoy (SCT19CS019)**, **Nikitha Maria Shency (SCT19CS044)** and **Suma S S (SCT19CS053)** to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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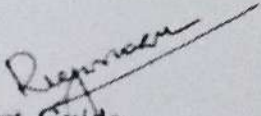
TRIVANDRUM


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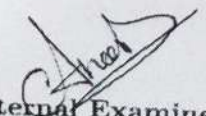
This is to certify that the report entitled "Blind Spot Detection using Deep Learning" submitted by Arjun K V (LSCT19CS065), Hari Narayan (SCT19CS030), Mridula Menon (SCT19CS042) and Swathin S (SCT19CS054) to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


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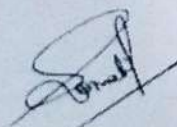
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THIRUVANANTHAPURAM

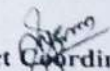
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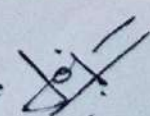


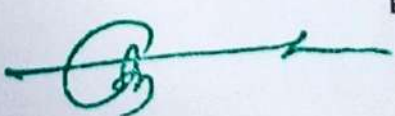
CERTIFICATE

This is to certify that the report entitled **Obstacle Detection System for Visually Impaired** submitted by **Fathimath Ansiya M P (SCT19CS028)**, **Hiba Shabu (SCT19CS31)**, **Jeffin Satheesh (SCT19CS033)** to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Computer Science and Engineering is a bonafide record of the project work carried out by him under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


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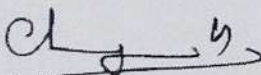
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TRIVANDRUM


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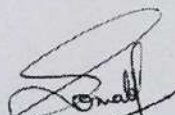


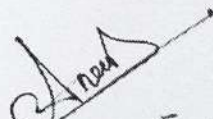
CERTIFICATE

This is to certify that the report entitled "Fake Product Identification using Blockchain" submitted by AMAL ARUN KE (SCT19CS011), ASHWIN V (SCT19CS017), JOEL SHALY VALLOMPARAMBIL (SCT19CS035) and NAVNEETH S (SCT19CS043) under the guidance of Dr. CHITHARANJAN K to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

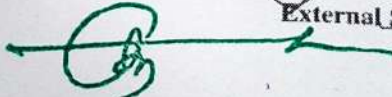

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THIRUVANANTHAPURAM-695018.



CERTIFICATE

This is to certify that the report entitled **Intelligent Virtual Assistant for the Blind** submitted by **Akshay Anithan (SCT19CS006)**, **Arjun V. Arun (SCT19CS016)**, **Deepu D. (SCT19CS023)**, and **Thomas Joy (SCT19CS056)** to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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CERTIFICATE

This is to certify that the report entitled **SPEECH TO SIGN LANGUAGE CONVERSION SYSTEM** submitted by Kiran M (SCT19CS040), Meera Jayaram (SCT19CS041), and Siddharth H Shankar (SCT19CS049) to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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Project Coordinator

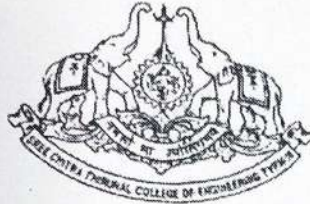
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THIRUNAL COLLEGE OF ENGINEERING TRIVANDRUM

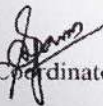
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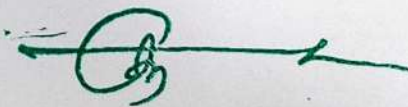
CERTIFICATE

This is to certify that the report entitled **SChaT- A Chatbot for College Website** submitted by **ALPHIN DAVIES (SCT19CS010)**, **DIVIN RAJ (SCT19CS026)**, **SREEHARI S.M (SCT19CS051)** to the APJ Abdul Kalam Technological University in partial fulfillment of the B.Tech. degree in Computer Science and Engineering is a bonafide record of the project work carried out by him under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


Project Guide
HOD


Project Coordinator

External Examiner



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College of Engineering
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


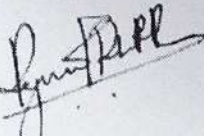
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THIRUVANANTHAPURAM-695018.



CERTIFICATE


This is to certify that the report entitled "Visualizing Floor Plans Using Virtual Reality" submitted by JAYALEKSHMI JAYAKUMAR (SCT19CS032), WREN OSWIN (SCT19CS062) and SIDDHARTH GOPINATH (SCT19CS048) under the guidance of Smt. REJIMOL ROBINSON R R. to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

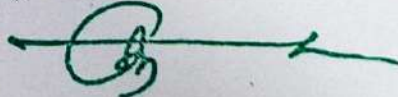
Project Coordinator 

Project Guide 

REJIMOL ROBINSON R R
Associate Professor
dept cse

External Supervisor


Head of Dept.





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SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING
TRIVANDRUM

2022 - 23



CERTIFICATE

This is to certify that the report entitled "Soil Nutrient Detection and Crop Prediction" submitted by Amann Mukund A (SCT19CS013), Anand K M (SCT19CS014) and Aswin S Kumar (SCT19CS018) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Head of the Dept.

Project Coordinator

Project Guide

External Supervisor



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SCT COLLEGE OF ENGINEERING, PAPPANAMCODE



CERTIFICATE

This is to certify that the project report entitled "HOME AUTOMATION USING AR" is a bonafide record of the work presented by AFREEN A HABEEB (SCT19CS003), DHANYA S B (SCT19CS025) , NITHIN P (SCT19CS045) to the APJ Abdul Kalam Technology in Computer Science and Engineering during the academic year 2022-2023 under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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External Examiner



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THIRUVANANTHAPURAM-695018.



CERTIFICATE

This is to certify that the report entitled **SLAM Robot** submitted by **Christina K James** (SCT19CS021), **Jerin S** (SCT19CS034) and **Ruth Mariam Reji** (SCT19CS047) to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.



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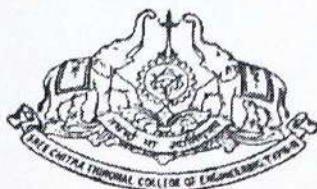
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CERTIFICATE

This is to certify that the report entitled **ARTIFICIAL INTELLIGENCE FENC-
ING** submitted by **Aleena Gigi(SCT19CS008)**, **Tina Mariam Thomas(SCT19CS057)**
and **Vighnesh Bablu(SCT19CS060)** under the guidance of **Smt. Syama R** to the **APJ
Abdul Kalam Technological University** in partial fulfillment of the **B.Tech. degree in Com-
puter Science Engineering** is a bonafide record of the project work carried out by them
under our guidance and supervision. This report in any form has not been submitted to
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DEPT. OF COMPUTER SCIENCE ENGINEERING
SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING
TRIVANDRUM

2022 - 23



CERTIFICATE

This is to certify that the report entitled "PARKING SPOT DETECTION USING DEEP LEARNING" submitted by ADWAITH S K (SCT19CS002), AKSHAY PRAKASH (SCT19CS007), AKHIL P (LSCT19CS066) and AMAL NATH S K (SCT19CS012) to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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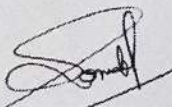



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SREE CHITRA THIRUNAI COLLEGE OF ENGINEERING,
THIRUVANANTHAPURAM-695018.




CERTIFICATE

This is to certify that the report entitled **Diabetic Retinopathy Detection using Deep Learning** submitted by **Aswanth K(MEA19CS011)**, **Vaishnav P(SCT19CS059)**, and **Kamal Krishnan(SCT19CS037)** to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

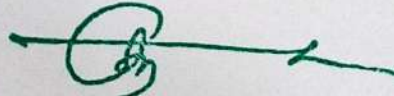

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