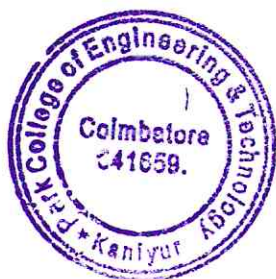





List of Students Undertaking Project work/field work/Internship for academic year 2021-22

B.E. - COMPUTER SCIENCE AND ENGINEERING

S.NO	STUDENT NAME	REG.NO	YEAR	PROJ WORK	MINI PROJ	INTERNSHIP	FIELD WORK
1	ABISHEK.A.V	712218104001	IV	✓			
2	ANTONY ROBERT.A	712218104003	IV	✓			
3	CHIDANAND.M	712218104006	IV	✓			
4	DHARANIR	712218104007	IV	✓		✓	
5	GOWRIS	712218104008	IV	✓			
6	GOWTHAMIN	712218104009	IV	✓			
7	GURUMOORTHIS	712218104010	IV	✓			
8	HARI HARA SUDHAN.P	712218104011	IV	✓			
9	HEMALATHA.P	712218104012	IV	✓			
10	KARTHIK.R	712218104013	IV	✓			
11	KARUNYASRI.L.N	712218104014	IV	✓			
12	KEERTHIKA.S	712218104015	IV	✓			
13	LAVANYA LAKSHMI.S.K	712218104016	IV	✓			
14	MUGESH.K	712218104017	IV	✓			
15	NALLAMUTHU.S	712218104019	IV	✓			
16	NANDHAKUMAR.A	712218104020	IV	✓			
17	NARMATHA.A	712218104021	IV	✓			
18	NAVEEN.V	712218104022	IV	✓			
19	NAVEEN.V	712218104023	IV	✓			
20	NICHA GANDHIV.P	712218104024	IV	✓		✓	
21	SARATHKUMAR.S	712218104029	IV	✓			
22	SATHYA PRAKASH.N	712218104030	IV	✓			
23	SATHYAPRIYA.T	712218104031	IV	✓			
24	SHALENE.N	712218104033	IV	✓			
25	SHALINI.S	712218104034	IV	✓			
26	SHREE POOJA SHEN.S	712218104035	IV	✓			
27	SNEKA.J	712218104036	IV	✓			
28	SRIRAJARAJESHWARI.V	712218104037	IV	✓			
29	THIRUNAVUKKARASU.T	712218104038	IV	✓			
30	VEERAKUMAR.P	712218104039	IV	✓			
31	VIGNESHWARAN.R	712218104040	IV	✓			

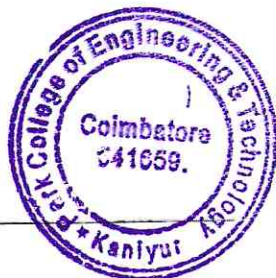



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



PARK COLLEGE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, Accredited by National Board of Accreditation and NAAC, Affiliated to Anna University)
NH 544, Avinashi Road, Kaniyur, Coimbatore - 641 659, Ph: 0421 2911200, 2910100
Email: info@park.ac.in Web: www.pcet.ac.in

32	ABITHA.B	712219104002	III		✓		
33	ALFHA COLT.G	712219104003	III		✓		
34	ANANDA RAJ.K	712219104004	III		✓		
35	ANANTHA KUMARS	712219104005	III		✓		
36	BALAGANESHA	712219104006	III		✓		
37	BRINTHA.R	712219104007	III		✓		
38	GANESAN.K	712219104009	III		✓		
39	HARISH KUMAR.M	712219104011	III		✓		
40	JAYAPRAKASH.K	712219104012	III		✓		
41	KRISHNARAJ.R	712219104013	III		✓		
42	LAKSHANAA PRIYA.V	712219104014	III		✓		
43	MAHADEVAN.M	712219104015	III		✓		
44	NAGENDRA PRASANTH.A	712219104017	III		✓		
45	NAVEEN.K	712219104018	III		✓		
46	RAJALAKSHMI.P	712219104019	III		✓		
47	SAI VIGNESH.S	712219104020	III		✓		
48	SANKAR SACHIN.P	712219104021	III		✓		
49	SHARMITHA.U	712219104022	III		✓		
50	SIVA BALAJI P	712219104024	III		✓		
51	SIVABALAN V	712219104025	III		✓		
52	SRIRAM K	712219104026	III		✓		
53	TAMILARASAN K	712219104027	III		✓		
54	VALLARASU R	712219104028	III		✓		
55	VENKATACHALA PATHI A	712219104029	III		✓		
56	VISHNU P.K	712219104030	III		✓		
57	YOGESH M	712219104031	III		✓		




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



PARK COLLEGE OF ENGINEERING AND TECHNOLOGY

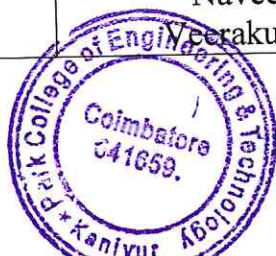
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NH 544, Avinashi Road, Kaniyur, Coimbatore – 641 659. Ph: 0421 2911200, 2910100

Email : info@park.ac.in Web : www.pcet.ac.in

AY(2021-22) BATCH 2018-22 CS8811-PROJECT WORK

Batch No	Name	Title of project	Guide
1.	Abishek A. V Chidanand M Karunya Sri L.N Narmatha A	Ballot Chain for Secure and Transparent E- Voting Mechanism Using AI and Block Chain Technology	Ms. A. Vanishree
2	Gowthami N Hemalatha P SathyaPriya T Shalini S	Heart Disease Prediction Using Machine Learning	Mr.G.Prabanchan
3	Nandha Kumar A Naveen V Shalene N Shree Pooja Shen S	Privacy Preserving of cloud data using Fingerprint	Mr.G.Prabanchan
4	Dharani R Nicha Gandhi V Sathya Prakash Vigneshwaran R	Integrity Resilient Auditing For secure cloud Storage	Mr.G.Prabanchan
5	Hari Hara Sudhan P Karthik R Lavanya Lakshmi S.K Sneka J	Android Aided Emergency Service System	Dr.P.Vivekanandan
6	Gurumoorthi S Mugesh K SriRaja Rajeswari V Thirunavukkarasu T	Automatic Garbage Detection System Using DeepLearning	Ms. A. Vanishree
7	Gowri S Keerthika S SarathKumar S	Data Protection using Geo –Fence Technology	Mr.G.Prabanchan
8	Anthony Robert A Nallamuthu S Naveen V Perakumar P	Android Application for Women Security	Dr.P.Vivekanandan




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



PARK COLLEGE OF ENGINEERING AND TECHNOLOGY

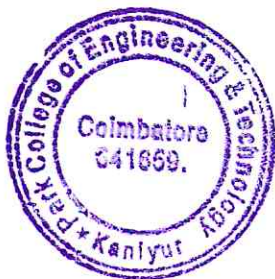
(Approved by AICTE, Accredited by National Board of Accreditation and NAAC, Affiliated to Anna University)

NH 544, Avinashi Road, Kaniyur, Coimbatore – 641 659. Ph: 0421 2911200, 2910100

Email : info@park.ac.in Web : www.pcet.ac.in

BATCH 2019-23 CS8611 - MINI PROJECT

Batch NO	Name	Title of Project	Guide
1	Ananthakumar S Ganesan K KrishnaRaj R Sharmitha U	Vehicle Detection Tracking and Counting	Ms.A.Vanishree
2	Anandaraj K Harishkumar M Jayaprakash K Sivabalan V	Bitcoin Price Prediction Using LSTM	Ms.A.Vanishree
3	BalaGanesh A Lakshanaa Priya V.N Rajalakshmi P Sriram K Yogesh M	Heart Disease Prediction Using Supervised Learning Algorithms	Ms.A.Vanishree
4	MahaDevan M NagendraPrasanth A Tamilarasam K Sankar Sachin P	Face Recognition Attendance System Using OpenCV	Mr.G.Prabanchan
5	Abitha B Brintha R Sivabalaji P Vallarasu R Venkatachalapathi A	Smart Chatbot Assistant for College	Mr.G.Prabanchan
6	Alfha Colt G Naveen K Sai Vignesh S Vishnu P K	CYBORG ARMS Using IoT	Dr.P.Vivekanandan




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



BITCOIN PRICE PREDICTION USING LSTM



A PROJECT REPORT

Submitted by

K. ANANDARAJ

712219104004

M. HARISHKUMAR

712219104011

K. JAYAPRAKASH

712219104012

V. SIVABALAN

712219104025

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

PARK COLLEGE OF ENGINEERING AND

TECHNOLOGY

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2022

i



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "BITCOIN PRICE PREDICTION USING LSTM" is the Bonafide work of "K. ANANDARAJ , M. HARISHKUMAR , K. JAYAPRAKASH , V. SIVABALAN" who carried out the project work under my supervision.


SIGNATURE

Dr.P. Vivekanandan M.Tech., Ph.D.


HEAD OF THE DEPARTMENT

Professor

Department of Computer Science and Engineering,

Park College of Engineering And Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Ms.A. Vanishree M.E,

SUPERVISOR

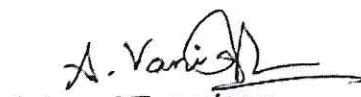
Assistant Professor

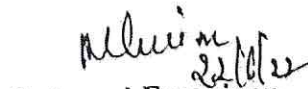
Department of Computer Science and Engineering,

Park College of Engineering And Technology,

Kaniyur, Coimbatore-641 659

Submitted for the University Project VIVA -VOCE examination held
on 22/06/22.


Internal Examiner

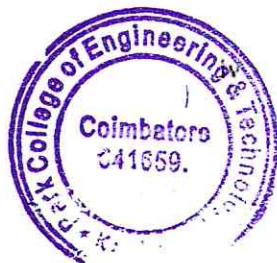

External Examiner




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Bitcoin is the first digital decentralized cryptocurrency that has shown a significant increase in market capitalization in recent years. The objective of this paper is to determine the predictable price direction of Bitcoin in USD by machine learning technique. We explored several algorithms of machine learning using supervised learning to develop a prediction model and provide informative analysis of future market prices. Due to the difficulty of evaluating the exact nature of a Time Series model, it is often very difficult to produce appropriate forecasts. Then we continue to implement long short-term memory cells (LSTM) algorithm. Thus, we analyzed the time series model prediction of bitcoin prices with greater efficiency using long short-term memory (LSTM) techniques. The proposed LSTM model which used the individual features(Open, High, Low, Close) as input value. The models are evaluated using Mean Absolute Error (MAE) and Root Mean Squared Error (RMSE). The Results show 0.189 (MAE) and 0.039 (RMSE) for Open price , 0.143 (MAE) and 0.027 (RMSE) for Low price , 0.233 (MAE) and 0.057 (RMSE) for High price and 0.222 (MAE) and 0.052 (RMSE) for Close price. The low error value of these two metrics show that the models are efficient in predicting predicting price.




Dr.D.LAKSHMANAN,ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

CHAPTER 7

CONCLUSION

Predicting cryptocurrency market is a challenging task due to consistently changing price values. The analysis was carried out on dataset for predicting bitcoin price values using Long Short Term Memory (LSTM) model. And also compared and analysed the performance of 50 epochs for training data with the 32 batch sizes. The Mean Absolute Error shows 0.189, Root Mean Squared Error shows 0.039 for open price, Mean Absolute Error shows 0.143, Root Mean Squared Error shows 0.027 for low price, Mean Absolute Error shows 0.233, Root Mean Squared Error shows 0.057 for high price, Mean Absolute Error shows 0.222, Root Mean Squared Error shows 0.052 for close price. So, the overall performance shows better results. We think GRU and Bi-LSTM algorithm will shows better performance over than others.





**FACE RECOGNITION ATTENDANCE
SYSTEM USING OPENCV**



A PROJECT REPORT

Submitted by

M. MAHADEVAN

712219104015

A. NAGENDRAPRASANTH

712219104017

K. TAMILARASAN

712219104027

P. SANKAR SACHIN

712219104021

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

in

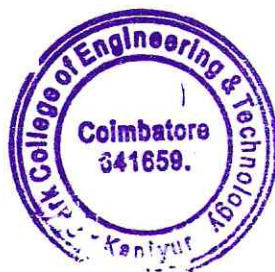
COMPUTER SCIENCE AND ENGINEERING

PARK COLLEGE OF ENGINEERING AND TECHNOLOGY

KANIYUR, COIMBATORE - 641 659

ANNA UNIVERSITY :: CHENNAI 600 025

APRIL 2022



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "FACE RECOGNITION ATTENDANCE SYSTEM USING OPENCV" is the Bonafide work "M. MAHADEVAN, A. NAGENDRA PRASANTH, K. TAMILARASAN, P. SANKAR SACHIN" who carried out the project work under my supervision.


SIGNATURE

Dr. P. Vivekanandan M. Tech., Ph.D.

HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659.


SIGNATURE

Mr. G. Prabanchian B.Tech., M.E.

SUPERVISOR


Assistant Professor

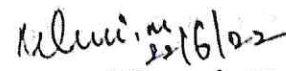
Department of Computer Science
and Engineering,

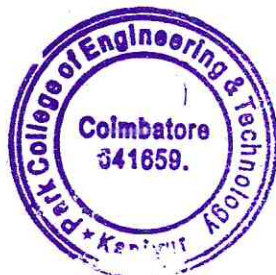
Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659.

Submitted for the University Project VIVA -VOCE
examination held on 22.06.2022


Internal Examiner


External Examiner



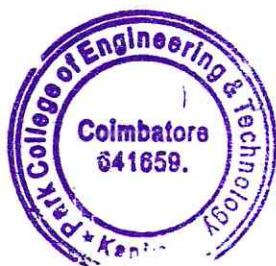

Dr.D.LAKSHMANAN, M.E., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

The main purpose of this project is to build a face recognition-based attendance monitoring system for educational institution to enhance and upgrade the current attendance system into more efficient and effective as compared to before. The current old system has a lot of ambiguity that caused inaccurate and inefficient of attendance taking. Many problems arise when the authority is unable to enforce the regulation that exist in the old system.

The technology working behind will be the face recognition system. The human face is one of the natural traits that can uniquely identify an individual. Therefore, it is used to trace identity as the possibilities for a face to deviate or being duplicated is low.

In this project, face databases will be created to pump data into the recognizer algorithm. Then, during the attendance taking session, faces will be compared against the database to seek for identity. When an individual is identified, its attendance will be taken down automatically saving necessary information into a excel sheet.



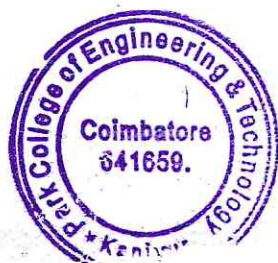
CHAPTER 9

CONCLUSION

Before the development of this project. There are many loopholes in the process of taking attendance using the old method which caused many troubles to most of the institutions. Therefore, the facial recognition feature embedded in the attendance monitoring system can not only ensure attendance to be taken accurately and also eliminated the flaws in the previous system.

By using technology to conquer the defects cannot merely save resources but also reduces human intervention in the whole process by handling all the complicated task to the machine. The only cost to this solution is to have sufficient space in to store all the faces into the database storage. Fortunately, there is such existence of microSD that can compensate with the volume of the data. In this project, the face database is successfully built. Apart from that, the face recognizing system is also working well.

At the end, the system not only resolve troubles that exist in the old model but also provide convenience to the user to access the information collected by mailing the attendance sheet to the respected faculty.





HEART DISEASE PREDICTION USING SUPERVISED LEARNING ALGORITHMS



A PROJECT REPORT

Submitted by

A. BALAGANESH	712219104006
V.N. LAKSHANAA PRIYA	712219104014
P. RAJALAKSHMI	712219104019
K. SRIRAM	712219104026
M. YOGESH	712219104031

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

**PARK COLLEGE OF ENGINEERING AND
TECHNOLOGY**

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2022

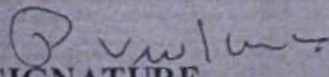


Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "HEART PREDICTION USING MACHINE LEARNING" is the Bonafide work A. BALA GANESH, V.N. LAKSHANAA PRIYA, P. RAJALAKSHMI, K. SRIRAM, M. YOGESH" who carried out the project work under my supervision.


SIGNATURE

Dr.P. Vivekanandan M.Tech., Ph.D.,

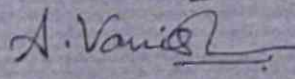
HEAD OF THE DEPARTMENT

Professor

Department of Computer Science and Engineering,

Park College of Engineering and Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Ms.A. Vanishree M.E.,

SUPERVISOR

Assistant Professor

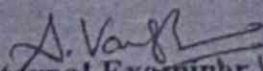
Department of Computer Science and Engineering,

Park College of Engineering and Technology,

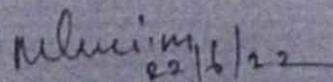
Kaniyur, Coimbatore-641 659

Submitted for the University Project VIVA -VOCE examination held on

22/6/2022


Internal Examiner 22/6/22

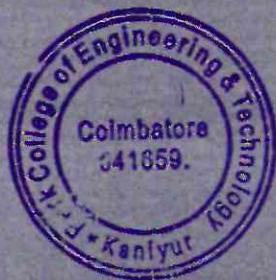



External Examiner



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Heart disease is one of the complex diseases and globally many people suffered from this disease. On time and efficient identification of heart disease plays a key role in healthcare, particularly in the field of cardiology. In this article, we proposed an efficient and accurate system to diagnosis heart disease and the system is based on machine learning techniques. The system is developed based on classification algorithm include SVC, SVM. The goal of SVM algorithm is to create the best line or decision boundary that can segregate n-dimensional space into classes so that we can easily put the new data point in correct category in the future. The hyperplane that we are using for classification is in linear condition, then the condition is SVC. The suggested diagnosis system (SVC) achieved good accuracy as compared to previously proposed methods. Additionally, the proposed system can easily be implemented in healthcare for the identification of heart disease.



V


Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

CHAPTER 8

CONCLUSION

Heart diseases are a major killer in India and throughout the world, application of promising technology like machine learning to the initial prediction of heart diseases will have a profound impact on society. The early prognosis of heart disease can aid in making decisions on lifestyle changes in high-risk patients and in turn reduce the complications, which can be a great milestone in the field of medicine. The number of people facing heart diseases is on a raise each year. This prompts for its early diagnosis and treatment. The utilization of suitable technology support in this regard can prove to be highly beneficial to the medical fraternity and patients. In this paper, the two different machine learning algorithms used to measure the performance are SVM, SVC applied on the dataset.

The expected attributes leading to heart disease in patients are available in the dataset which contains 14 important features that are useful to evaluate the system are selected among them. To increase efficiency, attribute selection is done. The correlation of some features in the dataset is almost equal and so they are removed. If all the attributes present in the dataset are taken into account then the efficiency decreases considerably. The two machine learning methods accuracies are compared based on which one prediction model is generated. Hence, the aim is to use various evaluation metrics like confusion matrix, accuracy, precision, recall, and f1-score which predicts the disease efficiently. Comparing the two support vector classification gives the highest accuracy of 90%.





SMART CHATBOT ASSISTANT FOR COLLEGE



A PROJECT REPORT

Submitted by

B. ABITHA	712219104002
R. BRINTHA	712219104007
P. SIVABALAJI	712219104024
R. VALLARASU	712219104028
A. VENKATACHALAPATHI	712219104029

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

PARK COLLEGE ENGINEERING AND TECHNOLOGY

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY :: CHENNAI 600 025

APRIL 2022




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "SMART CHATBOT ASSISTANT FOR COLLEGE" is the Bonafide work "B.ABITHA, R.BRINTHA, P.SIVABALAJI, R.VALLARASU, A.VENKATACHALLAPATHI" who carried out the project work under my supervision.



SIGNATURE

Dr.P. Vivekanandan M.Tech., Ph.D.

HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659.



SIGNATURE

Mr.G. Prabanchan B.Tech., M.E.

SUPERVISOR

Assistant Professor

Department of Computer Science
and Engineering,

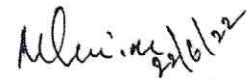
Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659.

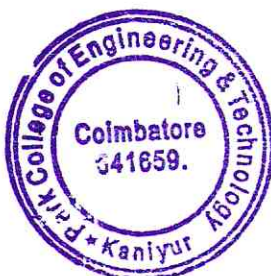
Submitted for the University Project VIVA -VOCE
examination held on 22.6.2022



Internal Examiner



External Examiner



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Chat bot is one of the evolving Technology that has great demand in various field. Chat bot is to create a human like conversation between human and machine for time consumption purpose. In college especially during the time of admission, reception gets crowded and people have to wait to get their queries solved. If people for from places want to solve their queries, they have to visit the respective college. If the college has its own chatbot, it will be way more easier for them. Although every college has its website, not everybody can find answer to their queries. To solve this Problems, we create an AI chatbot. This chat bot helps to solve to our college related query easily. Chat bot will be able to solve any types of queries regarding our college and doesn't allow the client stand in long queue for their questions. The chatbot will be available for 24/7.

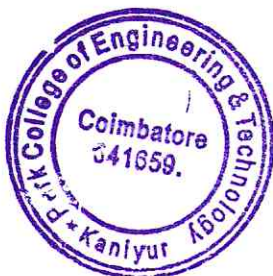



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

CHAPTER 7

CONCLUSION

In this project we made a college specific chatbot system that can be custom fitted to education domain chatbot. The addition of this chatbot system in the college website will make the webpage more user interactive as it responds to the user queries very accurately as it is a domain specific chatbot system, and furthermore we had investigated our college chatbot system design stages and a few different techniques by which the precision of the chatbot system can be made much better. To make the responses given by the chatbot system more meaningful and accurate the administrator has to train the chatbot system with more information regarding to college and increase the scope of knowledge base. Nevertheless, gathering feedback from the potential user can be helpful in developing the college Chatbot system, ultimately servicing the user queries.





VEHICLE DETECTION TRACKING AND COUNTING



A PROJECT REPORT

Submitted by

ANANTHAKUMAR S
GANESAN K
KRISHNARAJ R
SHARMITHA U

712219104005
712219104009
712219104013
712219104022

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

PARK COLLEGE OF ENGINEERING AND


TECHNOLOGY

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY:: CHENNAI 600 025

APRIL 2022

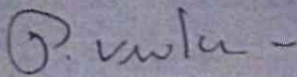



Dr. D. LAKSHMANAN, M.E., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "VEHICLE DETECTION TRACKING AND COUNTING" is the Bonafide work of "S. ANANTHAKUMAR, K. GANESAN, R. KRISHNA RAJ " who carried out the project work under my supervision.


SIGNATURE

Dr.P.Vivekanandan M.Tech., Ph.D.

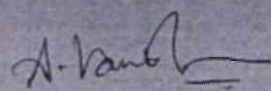
HEAD OF THE DEPARTMENT

Professor

Department of Computer Science and Engineering,

Park College of Engineering and Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Ms.A. Vanishree M.E.,

SUPERVISOR

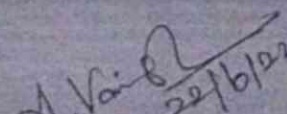
Assistant Professor

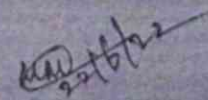
Department of Computer Science and Engineering,

Park College of Engineering and Technology,


Kaniyur, Coimbatore-641 659

Submitted for the University Project VIVA -VOCE examination held on 22/06/22.


Internal Examiner


External Examiner




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Intelligent vehicle detection and counting are becoming increasingly important in the field of highway management. However, due to the different sizes of vehicles, their detection remains a challenge that directly affects the accuracy of vehicle counts. To address this issue, this paper proposes a vision-based vehicle detection and counting system. A new high definition highway vehicle dataset with a total of 57,290 annotated instances in 11,129 images is published in this study. Compared with the existing public datasets, the proposed dataset contains annotated tiny objects in the image, which provides the complete data foundation for vehicle detection based on deep learning. In the proposed vehicle detection and counting system, the highway road surface in the image is first extracted and divided into a remote area and a proximal area by a newly proposed segmentation method; the method is crucial for improving vehicle detection. Several highway surveillance videos based on different scenes are used to verify the proposed methods. The experimental results verify that using the proposed segmentation method can provide higher detection accuracy, especially for the detection of small vehicle objects. Moreover, the novel strategy described in this article performs notably well in judging driving direction and counting vehicles. This paper has general practical significance for the management and control of highway scenes.



CHAPTER 7

CONCLUSION

We have presented the unitized techniques to achieve improvement and outperformance in the vehicle detection and counting process. Major technique used to improve detection of vehicles is the use of background subtraction algorithm. The proposed method eliminates the unnecessary portion and differentiates the vehicles in a more accurate manner.



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



ANDROID AIDED EMERGENCY SERVICE SYSTEM



A PROJECT REPORT

Submitted by

P.HARI HARA SUDHAN	712218104011
R.KARTHIK	712218104013
S.K.LAVANYA LAKSHMI	712218104016
J.SNEKA	712218104036

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

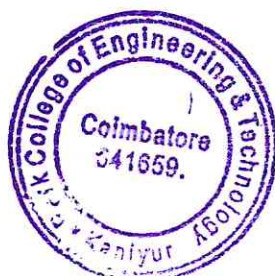
COMPUTER SCIENCE AND ENGINEERING


PARK COLLEGE OF ENGINEERING AND

TECHNOLOGY KANIYUR, COIMBATORE-641 659

ANNA UNIVERSITY::CHENNAI 600 025

APRIL 2022




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "ANDROID AIDED EMERGENCY SERVICE SYSTEM" is the Bonafide work of "P.HARI HARA SUDHAN, R.KARTHIK, S.K.LAVANYA LAKSHMI, J.SNEKA" who carried out the project work under my supervision.


SIGNATURE

Dr.P.Vivekanandan, M.Tech.,Ph.D.

HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Dr.P. Vivekanandan, M.Tech. Ph.D.

SUPERVISOR

Professor


Department of Computer Science
and Engineering,

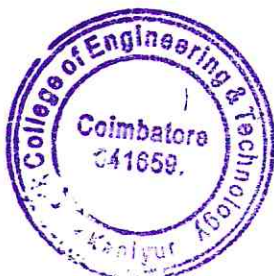
Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659

Submitted for the University Project VIVA -VOCE examination held
on 22.06.2022


Internal Examiner


External Examiner

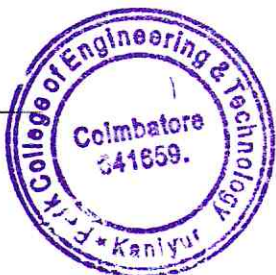



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

The large numbers of sick persons in different diseases are very dreaded, and when there isn't succor at the proper time and in the type the sick person need it that makes us lose person. This system offers a succoring system controlled by the patient based on the patients' location. In this emergency system the person will send SMS contains his ID and coordinates (Longitude and Latitude) via Global Positioning System (GPS) network to the web server, in this step the server will locate the sick person on Google map and retrieve the person's information from the database which is stored by the hospital employees. Based on these information, our system will send succoring facility and at the same time informing the hospital, relatives and doctor. This system relied on the dedicated tracking technology to identify the location of the patient. These dedicated alert systems used Global Positioning System GPS to provide the tracking facility. The system allow the user's mobility to be tracked using dedicated GPS or mobile phone which are equipped with an internal GPS receiver and a GPRS transmitter, i.e. most of the applications so far use a handheld GPS receiver device for tracking the location, and ISP are busy in the interval of tracking.

To overcome the problems above and to enhance the performance, throughput, of this type of system, the motivation is reached to system for succoring patients can achieve easy registration (from their homes) can select the nearest Emergency Service Center (ESC) when the patient need a succoring in emergency cases wherever her/his location the scouring facility can reach to her/his. The proposed system is the first tracking system using mobile GIS based on webservice technology to offer online succoring but really works only when the patient sends request for succoring.

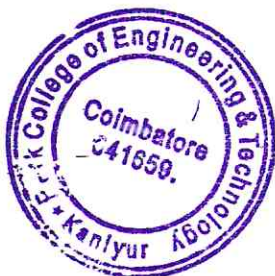


Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Colmbatore - 641659.

CHAPTER 12

CONCLUSION AND FUTURE WORK

The important conclusions obtained from implementing this system are, The using of mobile GIS based on Web service provided a satisfying higher productivity system and this is supported by request and response rate. This response is the highest comparing with other systems. The proposed system achieved higher productivity by selecting the nearest ESC to shorten the time requiring for reaching the patient. The proposed system covers all the aims and objectives, which are required from that system. The mobile application in the proposed system is developed based on Windows, phone, as future work, it can be developed for other cell phones, like iPhone which used different operation systems, like iOS. In future, it will be designed in such a way, it automatically short list the location of hospitals and sends emergency alert SMS to five relatives/friends.





ANDROID APPLICATION FOR
WOMEN SECURITY
A PROJECT REPORT



Submitted by

A. ANTONY ROBERT	712218104003
S. NALLAMUTHU	712218104019
V.NAVEEN	712218104023
P. VEERAKUMAR	712218104039

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING
PARK COLLEGE OF ENGINEERING AND
TECHNOLOGY KANIYUR, COIMBATORE

641 659

ANNA UNIVERSITY CHENNAI 600 027

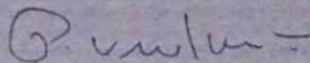
APRIL 2022



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "ANDROID APPLICATION FOR WOMEN SECURITY" is the bonafide work of "ANTONY ROBERT, NALLAMUTHU, NAVEEN, VEERAKUMAR," who carried out the project work under my supervision.


SIGNATURE

Dr.P.Vivekanandan, M.Tech.,PhD.

HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Dr.P.Vivekanandan, M.Tech.,PhD.

SUPERVISOR

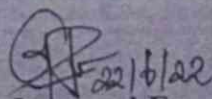
Professor

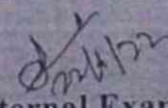
Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,


Kaniyur, Coimbatore-641 659

Submitted for the University Project VIVA -VOCE
examination held on 22/06/2022


Internal Examiner


External Examiner




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Today in the current global scenario, the prime question in every girl's mind, taking into account the ever-rising increase of issues on women harassment in recent past, is only about her safety and security. The only thought haunting every girl is when they will be able to move freely on the streets even in odd hours without worrying about their security. This paper suggests a new perspective to use technology to protect women. The system resembles a normal clove which when activated, tracks the location of the victim using GPS (Global Positioning System) and sends emergency messages using GSM (Global System for Mobile communication), to emergency contacts. The system also incorporates a pill reminder for old age women.

Remembering the time to take the medicines becomes difficult for old age people. This system overcomes the drawback by reminding the time to take pills through alert notification in android mobiles. By this the old age woman feels and takes medicine on time and avoids health risks when they are alone. The messages received that are received as text are converted into voice messages that read the message for the user. This will be useful for old age women and visually impaired person.

Mobile application is developed for the security of women and makes the life ease for old age women by reminding them about their medicine intakes. To create an app that converts the text recognized from messages, calls to voice data for the user's easy living.



CHAPTER 11

CONCLUSION AND FUTURE WORK

11.1 CONCLUSION:

The "Application for blind people" is a complex system involving many sub process. The system overcomes the limitation of existing manual system. This project has been designed, developed and implemented thus providing a full-fledged approach for proficient and best of results. The project satisfies each efficient user for saving his time and also helps him in clearing the providing help to the physically challenged peoples.

This project deals with the elements of the native technologies.


- It enables the physically challenged and the elderly people to overcome their difficulties and live without much support from others.
- It enables the well-wishers of the users to know their location to ensure their security and safety.

The project monitoring services can be updated with necessary enhancements in the database. The system overhauls the problem in the existing ones by capable of processing voluminous data in a user-friendly manner.

The persons, who are involved in working the task manually, have seen this project running and expressing satisfaction about the working procedures and the "conversion handling" incorporated in the project.



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Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

11.2 SCOPE FOR FUTURE ENHANCEMENT

Future enhancements can be made such as issuing user id to the user, where by the user can use that as a reference which specifies all his previous performance, the project work us stopped at this satisfactory level, due to time constraints.





**AUTOMATIC GARBAGE DETECTION
SYSTEM USING DEEP LEARNING**



A PROJECT REPORT

Submitted by

GURUMOORTHILS	712218104010
MUGESH.K	712218104017
SRIRAJARAJESWARI.V	712218104037
THIRUNAVUKKARASU.T	712218104038

in partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

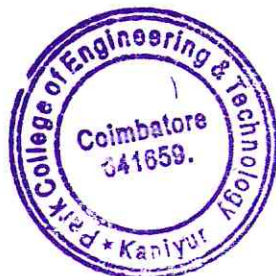
in

COMPUTER SCIENCE AND ENGINEERING

**PARK COLLEGE OF ENGINEERING AND
TECHNOLOGY KANIYUR, COIMBATORE-641 659**

ANNA UNIVERSITY::CHENNAI 600 025

APRIL 2022



Dr.D.LAKSHMANAN,ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "AUTOMATIC GARBAGE DETECTION SYSTEM USING DEEP LEARNING" is the bonafide work of "S. GURUMOORTHY, K. MUGESH, V. SRIRAJARAJESWARI, T.THIRUNAVUKKARASU" who carried out the project work under my supervision.


SIGNATURE

Dr. P.VIVEKANANDAN M.Tech.,
Ph.D.,

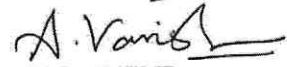
HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Ms.A.VANISHREE M.E.,

SUPERVISOR

Assistant Professor

Department of Computer Science
and Engineering,


Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659

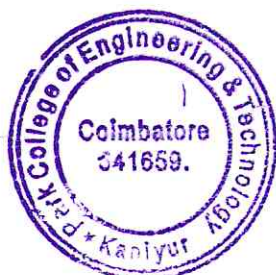
Submitted for the University Project VIVA -VOCE examination held on


22/06/2022


INTERNAL EXAMINER


EXTERNAL EXAMINER

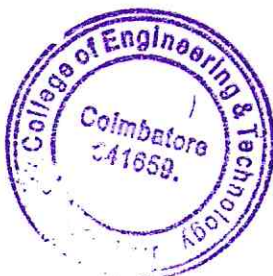
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Dr.D.LAKSHMANAN, M.E., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

One of the biggest problems that municipalities around the world have to deal with is waste management. Due to the population influx in urban areas, the rate of garbage generation has increased exponentially along with garbage diversity. Every day waste leaves the homes of citizens and then arrives in the designated waste collection areas. garbage can cause pollution and have a negative impact on the quality of life of residents in these areas. We propose automatic garbage detection method. In this paper, we use a deep learning (dense net) based model for garbage detection. The main purpose of object detection is to identify and locate one or more effective targets from still image or video data. It comprehensively includes a variety of important techniques, such as image processing, pattern recognition, artificial intelligence and machine learning



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

CHAPTER 7

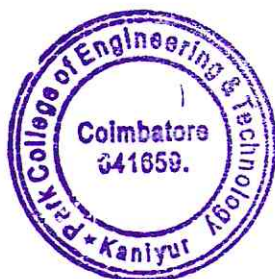
CONCLUSION AND FUTURE WORK

1.1 Conclusion

Garbage classification is achievable. Compared with the traditional garbage classification method, the garbage classification method using deep learning convolutional neural network has higher accuracy, can achieve the purpose of garbage classification, and can save a lot of time and labour costs. This paper discusses garbage detection with dense net architecture which gives high accuracy rate.

1.2 Future work

In the future, an integrated system can be developed that generates a notification on the identification of waste in the image, and transfers the geo coordinates and the time to the concerned authorities so that the action can be taken in the real-time. That way, trash can be collected in the location other than landfills or waste dumps, ensuring the cleanliness of our surroundings.





BALLOT CHAIN FOR SECURE AND TRANSPARENT E-VOTING MECHANISM USING AI AND BLOCKCHAIN TECHNOLOGY



A PROJECT REPORT

Submitted by

A. V. ABISHEK

712218104001

M. CHIDANAND

712218104006

L. N. KARUNYA SRI

712218104014

A. NARMATHA

712218104021

*In partial fulfilment for the award of the degree
of*

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

PARK COLLEGE OF ENGINEERING AND TECHNOLOGY

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY :: CHENNAI 600 025



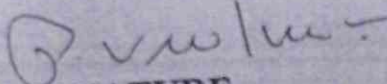
APRIL 2022

Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL

Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "BALLOT CHAIN FOR SECURE AND TRANSPARENT E-VOTING MECHANISM USING AI AND BLOCKCHAIN TECHNOLOGY" is the Bonafide work "A.V. ABISHEK, M.CHIDANAND, L. N. KARUNYASRI, A. NARMATHA" who carried out the project work under my supervision.


SIGNATURE

Dr.P.Vivekanandan, M.Tech., Ph.D.

HEAD OF THE DEPARTMENT

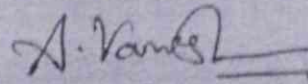
Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659

[A.VANISHREE]


SIGNATURE

Ms.A.Vanishree, M.E.,

SUPERVISOR

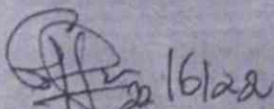
Assistant Professor

Department of Computer Science
and Engineering,

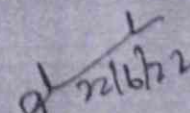
Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659

Submitted for the University Project VIVA -VOCE examination
held on 22/06/2022


Internal Examiner




External Examiner


Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Artificial intelligence (AI) has demonstrated huge potential in a variety of real-world applications. However, some significant considerations like fairness, transparency and trustworthiness are still challenging when applying AI to trust-oriented applications such as E-voting. The technology can ensure the safety of every vote, better and faster and much more accurate counting and automatic tallying. In this project, we aim to facilitate the consolidation of AI ecosystems by developing a blockchain-based traceable self-tallying e-voting system. The proposed system presents a novel voting system by using Fingerprint of Aadhaar card and Face recognition. When the e-voting system is any eligible voter can vote from anywhere as there will be two or more levels of authenticity checks. The system will act as registering module on activating switch by the super admin. For registering module, followed by the fingerprint and face verification. The system permits the elector to cast their vote, block chain technology comes into existence that is integrated within the machine. Each vote is added into each block encrypted by 256-bit SHA hash codes, the hashed block cannot be tampered by any individual as more security is added to the system. By adopting Blockchain within the distribution of information will scale back one in every of the cheating sources of database manipulation. The proposed mechanism of voting using Blockchain not only serves the election conducting bodies but also the voters who get notified in case of any meddling with their votes before the counting announcement.




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

CHAPTER 9

CONCLUSION AND FUTURE WORK

9.1 CONCLUSION

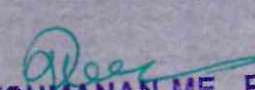
The idea of adapting digital voting systems to make the public electoral process cheaper, faster and easier, is a compelling one in modern society. Making the electoral process cheap and quick, normalizes it in the eyes of the voters, removes a certain power barrier between the voter and the elected official and puts a certain amount of pressure on the elected official. It also opens the door for a more direct form of democracy, allowing voters to express their will on individual bills and propositions. In this project, we introduced a unique, blockchain-based electronic voting system that utilizes smart contracts to enable secure and cost-efficient election while guaranteeing voters privacy. We have outlined the systems architecture, the design, and a security analysis of the system. By comparison to previous work, we have shown that the blockchain technology offers a new possibility for democratic countries to advance from the pen and paper election scheme, to a more cost- and time-efficient election scheme, while increasing the security measures of the today's scheme and offer new possibilities of transparency. Using an Ballot chain private blockchain, it is possible to send hundreds of transactions per second onto the blockchain, utilizing every aspect of the smart contract to ease the load on the blockchain. For countries of greater size, some measures must be taken to withhold greater throughput of transactions per second, for example the parent & child architecture which reduces the number of transactions stored on the blockchain at a 1:100 ratio without compromising the networks security. Our election scheme allows individual voters to vote at a voting district of their choosing while guaranteeing that each individual voter's vote is counted from the correct district, which could potentially increase voter turnout.



9.2 FUTURE WORK

In the future, it is aimed to simulate with a more realistic system, to operate the system from end to end, and to focus on optimizations for scalability of the system. Another future work is that in the proposed system the end of election is assumed to be depending on the system time. However, the system may be improved to increase the security of the time dimension. In our opinion, transition to the e-voting method should proceed slowly by implementing in small pilot populations first and then widening the scope slowly. The implementation of such voting systems still poses many challenges and risks for developers and governments.




Dr. D. LAKSHMANAN, M.E., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



DATA PROTECTION USING GEO-FENCE TECHNOLOGY



A PROJECT REPORT

Submitted by

S. GOWRI	712218104008
S. KEERTHIKA	712218104015
S. SARATHKUMAR	712218104029

*In partial fulfilment for the award of the degree
of*
BACHELOR OF ENGINEERING
in

COMPUTER SCIENCE AND ENGINEERING
PARK COLLEGE OF ENGINEERING AND TECHNOLOGY

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY: CHENNAI 600025

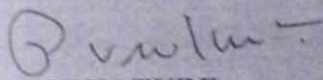
APRIL 2022



Dr. D. Lakshmanan
Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "DATA PROTECTION USING GEOFENCING TECHNOLOGY" is the Bonafide work "S. GOWRI, S. KEERTHIKA, S. SARATHKUMAR," who carried out the project work under my supervision.


SIGNATURE

Dr.P.Vivekanandan, M. Tech, Ph.D.

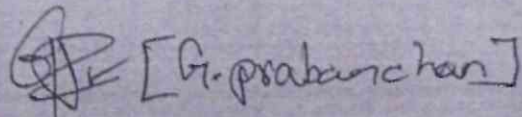
HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Mr.G.Prabanchan, B.Tech, M.E.

SUPERVISOR

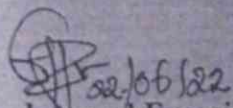
Assistant Professor

Department of Computer Science
and Engineering,

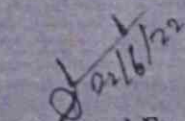
Park College of Engineering
and Technology,


Kaniyur, Coimbatore-641 659

Submitted for the University Project VIVA -VOCE examination
held on 22-06-22.


Internal Examiner

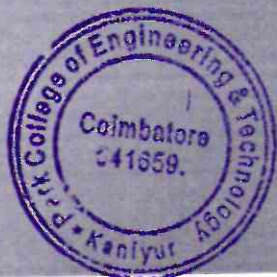



External Examiner


Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Data sharing and access are capabilities businesses and organizations require the most these days. Remote working and mobile access to resources and collaboration platforms made it easier to access data and resources from anywhere, anytime. Employees want to access documents and email from different devices, and from various locations at a time. Access from untrusted networks is always a threat to businesses. This might result in data loss and overexposure of critical data. To mitigate the deficiencies of logical security mechanisms, and coinciding with the trend of cyber-physical systems, security mechanisms have been proposed that integrate with the physical environment. To ensure that business's data and resources are safe. In this project we propose an innovative **Geo Fence** that uses a location data and geospatial intelligence. Geospatial data analysis enhances understanding, insight, decision-making, and prediction. Location intelligence (LI) is achieved via visualization and analysis of geospatial data. Then we improve the security of data access in Data Server for a company or any other specific locations using the location-based cryptosystem. Geo Fence provides a means to secure sensitive information within an organization. It can be set to Off, On, Restricted View or Read Only. The main benefit of setting up such a geo fence is in avoiding data leakage.



CHAPTER 7

CONCLUSION AND FUTURE WORK

7.1 Conclusion

In this project, we introduced a location-aware framework for provide data security, which enables the participation of workers without compromising their location privacy. We identified geo fencing as a needed step to ensure that data privacy is protected prior to workers consenting to a task. We provided heuristics and optimizations for determining effective geo fencing regions that achieve high task assignment rate with low overhead. It also generates the victim files; it automatically checks the geo - fencing boundary values and wipeout the system and files when geo - fencing address is mismatch.

7.2 Future Work

In the future, we plan to take into more complicated policies to capture other privacy requirements other than the location. And also, we insist this method to popular E-Mail Service Provider too.




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



HEART DISEASE PREDICTION USING MACHINE LEARNING



A PROJECT REPORT

Submitted by

N. GOWTHAMI

712218104009

P. HEMALATHA

712218104012

T. SATHAPRIYA

712218104031

S. SHALINI

712218104034

In partial fulfilment for the award of the degree of

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

PARK COLLEGE OF ENGINEERING TECHNOLOGY

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY :: CHENNAI 600 025

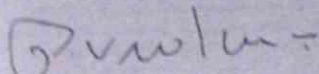
APRIL 2022




Dr.D.LAKSHMANAN, ME., Ph.D
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "HEART DISEASE PREDICTION USING MACHINE LEARNING" is the Bonafede work "N.GOWTHAMI, P.HEMALATHA, T. SATHYAPRIYA, S. SHALINI" who carried out the project work under my supervision.


SIGNATURE

Dr.P. Vivekanandan, M.Tech., Ph.D.

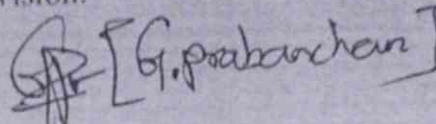
HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park college of Engineering
and Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Mr. G. Prabanchan, B.Tech., M.E.

SUPERVISOR

Assistant Professor

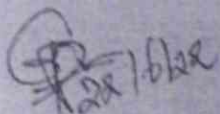
Department of Computer Science
and Engineering,

Park college of Engineering
and Technology,

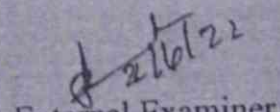
Kaniyur, Coimbatore-641 659

Submitted for the University Project VIVA -VOCE examination held on

22-06-2022



Internal Examiner


External Examiner




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL

Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Heart disease is one of the complex diseases and globally many people suffered from this disease. On time and efficient identification of heart disease plays a key role in healthcare, particularly in the field of cardiology. In this article, we proposed an efficient and accurate system to diagnosis heart disease and the system is based on machine learning techniques. The system is developed based on classification algorithm include CNN while standard features selection algorithms have been used such as Relief, Minimal redundancy maximal relevance, least absolute shrinkage selection operator and Local learning for removing irrelevant and redundant features.

We also proposed novel fast conditional mutual information feature selection algorithm to solve feature selection problem. The features selection algorithms are used for features selection to increase the classification accuracy and reduce the execution time of classification system. Furthermore, the leave one subject out cross-validation method has been used for learning the best practices of model assessment and for hyperparameter tuning.

The performance measuring metrics are used for assessment of the performances of the classifiers. The performances of the classifiers have been checked on the selected features as selected by features selection algorithms. The experimental results show that the proposed algorithm (CNN) is feasible with classifier CONVOLUTIONAL NEURAL NETWORK for designing a high-level intelligent system to identify heart disease. The suggested diagnosis system (CNN) achieved good accuracy as compared to previously proposed methods. Additionally, the proposed system can easily be implemented in healthcare for the identification of heart disease.

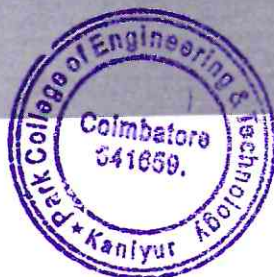


CHAPTER 10

CONCLUSION AND FUTURE WORK

10.1 CONCLUSION

To realize that beside the point capabilities additionally degrade the overall performance of the analysis device and improved computation time. Thus, some other revolutionary contact of our have a look at to used capabilities choice algorithms to selects the suitable capabilities that enhance the class accuracy in addition to lessen the processing time of the analysis device. A little improvement in prediction accuracy have great influence in diagnosis of critical diseases. The novelty of the study is developing a diagnosis system for identification of heart disease In the future, we can use different capabilities choice algorithms, optimization techniques to in addition growth the overall performance of a predictive device for HD classification. The controlling and remedy of ailment is importance after analysis, therefore, I'm able to paintings on remedy and restoration of illnesses in future additionally for vital ailment together with heart. The proposed CNN model has end up being a valuable device in the discovery of coronary illness in clinical experts. An extra phase of highlight choice was proposed to improve precision. The dataset is isolated into a preparation set and a test set, and the preparation informational index is utilized to frame singular classifiers. With the test informational collection, the proficiency of the classifiers is tried.




Dr.D.LAKSHMANAN, ME., Ph.D
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 541659.

10.2 FUTURE WORK

- Our proposed system is just a stimulation to predict heart disease for training dataset. We can't get the result for an individual person.
- In future, we can develop this to get results for an individual person. We can also implement this using artificial intelligence to make the prediction automatic and which is more useful in real-world.




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



**INTEGRITY RESILIENT
AUDITING FOR SECURE
CLOUD STORAGE**



A PROJECT REPORT

Submitted by

R.DHARANI	712218104007
V.P.NICHA GANDHI	712218104024
N.SATHYA PRAKASH	712218104030
R.VIGNESHWARAN	712218104040

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

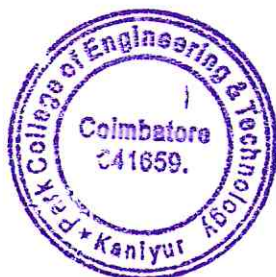
PARK COLLEGE OF ENGINEERING AND

TECHNOLOGY

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY: CHENNAI 600025

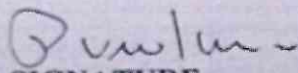
APRIL 2022



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "INTERITY RESILENT AUDITING FOR SECURE CLOUD STORAGE" is the Bonafide work "R. DHARANI, V.P. NICHIA GANDHI, N. SATHYA PRAKASH, R.VIGNESHWARAN" who carried out the project work under my supervision.


SIGNATURE

Dr.P.Vivekanandan, M.Tech, Ph.D.

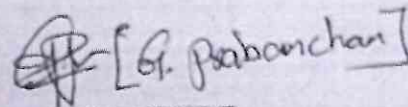
HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore - 641 659.


SIGNATURE

Mr.G.Prabanchan, B.Tech, M.E.

SUPERVISOR

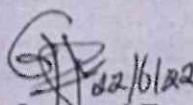
Assistant Professor

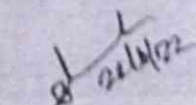
Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,


Kaniyur, Coimbatore - 641 659.

Submitted for the University Project VIVA-VOCE
examination held on 22-06-2022.


Internal Examiner


External Examiner




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

Key presentation is one genuine security issue for distributed storage evaluating. So as to manage this issue, distributed storage examining plan with key-presentation strength has been proposed. Not with standing, in such a plan, the noxious cloud may in any case produce legitimate authenticators later than the key-introduction day and age in the event that it gets the present mystery key of information proprietor. In this paper, we inventively propose a worldview named solid key exposure strong inspecting for secure distributed storage, in which the security of distributed storage reviewing sooner than as well as later than the key introduction can be safeguarded. We formalize the definition and the security model of this new sort of distributed storage evaluating and plan a solid plan. In our proposed conspire, the key introduction in one era doesn't influence the security of distributed storage inspecting in other eras. The thorough security evidence and the test comes about exhibit that our proposed plot accomplishes alluring security and effectiveness.



CHAPTER 13

CONCLUSION

We propose a new remote data integrity checking protocol for cloud storage. The proposed protocol is suitable for providing integrity protection of customers' important data. The proposed protocol supports data insertion, modification, and deletion at the block level, and also supports public verifiability. The proposed protocol is proved to be secure against an untrusted server.

It is also private against third-party verifiers. Both theoretical analysis and experimental results demonstrate that the proposed protocol has very good efficiency in the aspects of communication, computation, and storage costs. Currently, we are still working on extending the protocol to support data level dynamics. The difficulty is that there is no clear mapping relationship between the data and the tags.





PRIVACY PRESERVING OF CLOUD DATA USING FINGERPRINT



A PROJECT REPORT

Submitted by

A. NANDHA KUMAR	712218104020
V. NAVEEN	712218104022
N. SHALENE	712218104033
S. SHREE POOJA SHEN	712218104035

In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

in

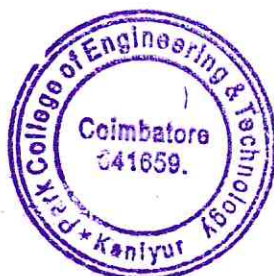
COMPUTER SCIENCE AND ENGINEERING

PARK COLLEGE OF ENGINEERING TECHNOLOGY

KANIYUR, COIMBATORE-641659

ANNA UNIVERSITY :: CHENNAI 6000025

APRIL 2022




Dr. D. LAKSHMANAN, M.E., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

BONAFIDE CERTIFICATE

Certified that this project report "PRIVACY PRESERVING OF CLOUD DATA USING FINGERPRINT" is the Bonafide work "A. NANDHA KUMAR, V. NAVEEN, N. SHALENE, S. SHREE POOJA SHEN" who carried out the project work under my supervision.


SIGNATURE

Dr. P. Vivekanandan, M.Tech., Ph.D.

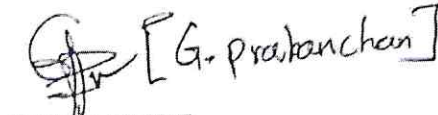
HEAD OF THE DEPARTMENT

Professor

Department of Computer Science
and Engineering,

Park College of Engineering
and Technology,

Kaniyur, Coimbatore-641 659


SIGNATURE

Mr. G. Prabanchan, B.Tech., M.E.

SUPERVISOR


Assistant Professor

Department of Computer Science
and Engineering,

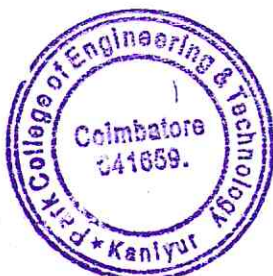
Park College of Engineering
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Internal Examiner


External Examiner

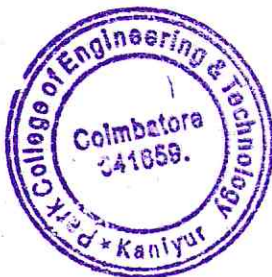



Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

ABSTRACT

With the pervasiveness of mobile devices and the development of biometric technology, biometric identification, which can achieve individual authentication relies on personal biological or behavioral characteristics, has attracted widely considerable interest. However, privacy issues of biometric data bring out increasing concerns due to the highly sensitivity of biometric data. Aiming at this challenge, in this paper, we present a novel privacy-preserving online fingerprint authentication scheme, named e-Finga, over encrypted outsourced data.

In the proposed e-Finga scheme, the user's fingerprint registered in trust authority can be outsourced to different servers with user's authorization, and secure, accurate and efficient authentication service can be provided without the leakage of fingerprint information. Specifically, an improved homomorphic encryption technology for secure euclidean distance calculation to achieve an efficient online fingerprint matching algorithm over encrypted finger code data in the outsourcing scenarios.




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.

CHAPTER 10

CONCLUSION AND FUTURE WORKS

10.1 CONCLUSION

We have proposed an efficient and privacy preserving online fingerprint authentication scheme, called e-Finga, over encrypted outsourced data. Based on an improved homomorphism encryption technology for secure euclidean distance calculation over composite order group, the proposed e-Finga can achieve the privacy of user fingerprint and confidentiality of matching templates. Specifically, OSE'er can directly compute the matching criteria on ciphertext without decryption, and the accuracy of the underling fingerprint identification system will not be compromised.

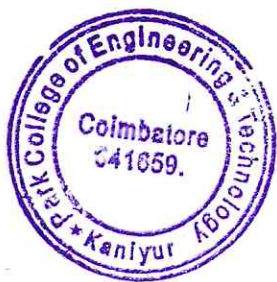
Meanwhile, the matching result can also only be decrypted by the registered user. Thus, the user can get secure and accurate fingerprint authentication without divulging his/her fingerprint information. Detailed security analysis shows its security strength and privacy-preserving ability, and extensive experiments are conducted to demonstrate its efficiency.



10.2 FUTURE WORKS

This project proposed a flexible privacy-preserving data sharing (FPDS) scheme in cloud-assisted IoT. The FPDS scheme is characterized by employing identity-based encryption and linear secret sharing scheme to not only preserve the privacy of data outsourced to the cloud but also achieve flexible sharing of encrypted data. Detailed security analysis shows that the FPDS scheme is secure against semi-trusted cloud and malicious users. Thorough performance evaluation indicates the high efficiency of the scheme.

The FPDS scheme allows to encrypt data with any recognizable identity and thus avoids complicated public-key certificates in usual secure storage systems. Similarly to the identity-based encryption, however, the FPDS scheme only allows to share data to one recipient, which makes it difficult to share data with a group of users. In our future work, we will explore more general solutions on basis of broadcast/attribute-based encryption, to support privacy-preserving data sharing for multiple recipients in cloud-assisted IoT scenarios.




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



INTERNSHIP CERTIFICATE

31 / 07 / 2022

To Whomsoever It May Concern

Sub : Internship Certificate

This is to certify that **Ms. Dharani R** residing at # 22D/39 Jayasimmapuram, Pappanaickenpalayam Coimbatore 641037 has done an internship with us from **07/02/ 2022** to **31/07/2022**. She was assigned a project in the department of Data Engineering that she could successfully complete to our expectations, well within the agreed timeline.

During the course of the project, she was consistently demonstrating her skills, commitment and sincerity that has well reflected in the overall outcome of the project.

We take this opportunity to sincerely thank and wish her a great career ahead.

All the best !


Warm Regards,

Karthika Natrayasamy

(Sr.Executive – Human Resources)



Mayflower Valencia, 3A, 7th FLOOR, Old/New 1264B, Avinashi Road, Nava India, Coimbatore - 641094.
+91 9438846246 | www.prominentcontact.com | Corporate Identification Number U72900TZ2020PTC034315


D.D. LAKSHMANAN ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.



**PROMINENT
CONTACT**

INTERNSHIP CERTIFICATE

31 / 07 / 2022

To Whomsoever It May Concern

Sub : Internship Certificate

This is to certify that Ms. Nisha Gandhi V P residing at # 68B Oorgoundar Street, TG Nagar, Veerakeralam, Coimbatore 641007 has done an internship with us from 07/02/ 2022 to 31/07/2022. She was assigned a project in the department of Data Engineering that she could successfully complete to our expectations, well within the agreed timeline.

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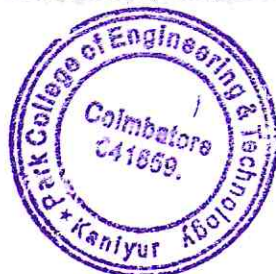
All the best !


Warm Regards,

Karthika Natrayasamy

(Sr.Executive - Human Resources)

Mayflower Valencia, 3A, 7th FLOOR, Old/New 1264B, Avinashi Road, Nava India, Coimbatore - 641004 |
+91 8438846246 | www.prominentcontact.com | Corporate Identification Number U72900TZ2020PTC034315




Dr.D.LAKSHMANAN, ME., Ph.D.
PRINCIPAL
Park College of Engineering & Technology
Avinashi Road,
Kaniyur, Coimbatore - 641659.