

**PROFIT MAXIMIZATION FOR CLOUD BROKERS IN CLOUD
COMPUTING**

A Major-Project report submitted in partial fulfillment of the requirements of
Jawaharlal Nehru Technological University

For the award of Degree of
Bachelor of Technology
in
Computer Science and Engineering

By

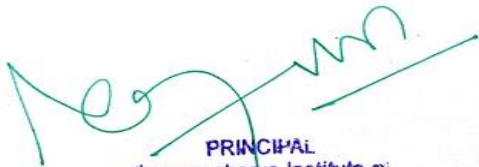
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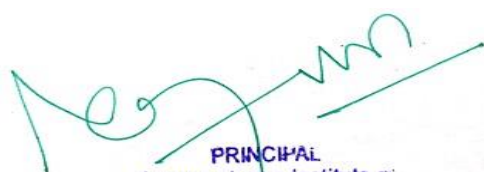
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ABSTRACT

Along with the development of cloud computing, more and more applications are migrated into the cloud. An important feature of cloud computing is pay-as-you-go. However, most users always have to pay more than their actual usage due to the one-hour billing cycle. In addition, most cloud service providers provide a certain discount for long-term users, but short-term users with small computing demands cannot enjoy this discount. To reduce the cost of cloud users, we introduce a new role, which is cloud broker. A cloud broker is an intermediary agent between cloud providers and cloud users. It rents a number of reserved VMs from cloud providers with a good price and offers them to users on an on-demand basis at a cheaper price than that provided by cloud providers. Besides, the cloud broker adopts a shorter billing cycle compared with cloud providers. By doing this, the cloud broker can reduce a great amount of cost for user. In addition to reduce the user cost, the cloud broker also could earn the difference in prices between on-demand and reserved VMs. In this paper, we focus on how to configure a cloud broker and how to price its VMs such that its profit can be maximized on the premise of saving costs for users. Profit of a cloud broker is affected by many factors such as the user demands, the purchase price and the sales price of VMs, the scale of the cloud broker, etc.. Moreover, these factors are affected mutually, which makes the analysis on profit more complicated. In this paper, we firstly give a synthetically analysis on all the affecting factors, and define an optimal multi server configuration and VM pricing problem which is modeled as a profit maximization problem. Secondly, combining the partial derivative and bisection search method, we propose a heuristic method to solve the optimization problem. The near- optimal solutions can be used to guide the configuration and VM pricing of the cloud broker. Moreover, a series of comparisons are given which show that a cloud broker can save a considerable cost for users.



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**SECURE FILE STORAGE IN CLOUD COMPUTING USING HYBRID
CRYPTOGRAPHY ALGORITHM**

A Major-Project report submitted in partial fulfilment of the requirements of
Jawaharlal Nehru Technological University

For the award of Degree of
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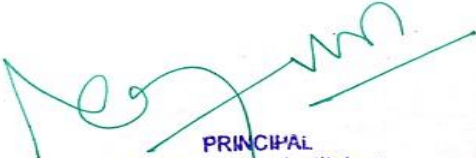



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ABSTRACT

Now a day's cloud computing is used in many areas like industry, military colleges etc to storing huge amount of data. We can retrieve data from cloud on request of user. To store data on cloud we have to face many issues. To provides the solution to these issues there are n number of ways. Cryptography and steganography techniques are more popular now a day's for data security. Use of a single algorithm is not effective for high level security to data in cloud computing. In this paper we have introduced new security mechanism using symmetric key cryptography algorithm and steganography. In this proposed system AES, blowfish, RC6 and BRA algorithms are used to provide block wise security to data. All algorithm key size is 128 bit. LSB steganography technique is introduced for key information security. Key information contains which part of file is encrypted using by which algorithm and =key. File is splited into eight parts. Each and every part of file is encrypted using different algorithm. All parts of file are encrypted simultaneously with the help of multithreading technique. Data encryption Keys are inserted into cover image using LSB technique. Stego image is send to valid receiver using email .For file decryption purpose reverse process of encryption is applied.


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**SECURE DATA TRANSFER AND DELETION FROM
COUNTING BLOOM FILTER IN CLOUD COMPUTING**

A Major-Project report submitted in partial fulfillment of the requirements of

Jawaharlal Nehru Technological University

For the award of Degree of

Bachelor of Technology

in

Computer Science and Engineering

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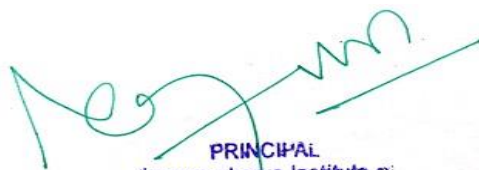


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ABSTRACT

With the rapid development of cloud storage, an increasing number of data owners prefer to outsource their data to the cloud server, which can greatly reduce the local storage overhead. Because different cloud service providers offer distinct quality of data storage service, e.g., security, reliability, access speed and prices, cloud data transfer has become a fundamental requirement of the data owner to change the cloud service providers. Hence, how to securely migrate the data from one cloud to another and permanently delete the transferred data from the original cloud becomes a primary concern of data owners. To solve this problem, we construct a new counting Bloom filter-based scheme in this paper. The proposed scheme not only can achieve secure data transfer but also can realize permanent data deletion. Additionally, the proposed scheme can satisfy the public verifiability without requiring any trusted third party. Finally, we also develop a simulation implementation that demonstrates the practicality and efficiency of our proposal.



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**CREDIT CARD FRAUD DETECTION USING ADABOOST
AND MAJORITY VOTING**

A Major-Project report submitted in partial fulfillment of the requirements
of Jawaharlal Nehru Technological University

For the award of Degree of

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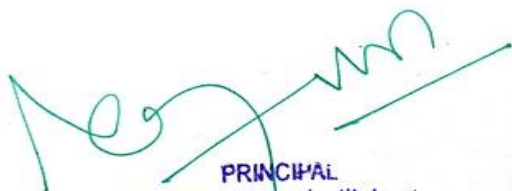
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ABSTRACT

Credit card fraud is a serious problem in financial services. Billions of dollars are lost due to credit card fraud every year. There is a lack of research studies on analyzing real-world credit card data owing to confidentiality issues. In this paper, machine learning algorithms are used to detect credit card fraud. Standard models are firstly used. Then, hybrid methods which use Ada Boost and majority voting methods are applied. To evaluate the model efficacy, a publicly available credit card data set is used. Then a real-world credit card data set from a financial institution is analyzed. In addition, noise is added to the data samples to further assess the robustness of the algorithms. The experimental results positively indicate that the majority voting method achieves good accuracy rates in detecting fraud cases in credit cards.



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HOUSING SOCIETY MANAGEMENT SYSTEM

A Major-Project report submitted in partial fulfillment of the requirements of
Jawaharlal Nehru Technological University

For the award of Degree of
Bachelor of Technology
in
Computer Science and Engineering


By


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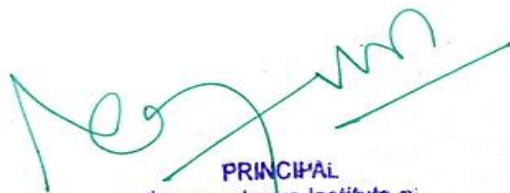
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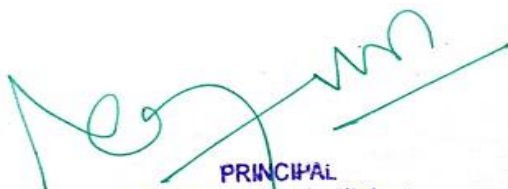
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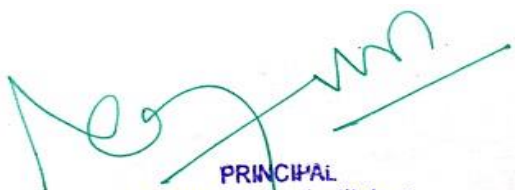
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ABSTRACT

Housing society or apartment management plays a significant role in our residential life. Our day to day needs such as water supply, electricity, security, maintenance comes under housing society management. This system exists for the purpose to help and ease our life but has many traditional methods and a lot of paperwork. Our proposed system is an android application which will compute all day-to-day operations in the society. This system is an automated system which will keep the details of daily notices, monthly meetings, cultural events and also contains sections such as complaints, domestic help, calendar etc.



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**SEGREGATING SPAMMERS AND UNSOLICITED
BLOGGERS FROM GENUINE EXPERTS ON TWITTER**

A Major Project report submitted in partial fulfillment of the requirements of
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Asst. professor of CSE Department



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CERTIFICATE

This is to certify that the major-project report entitled
“SEGREGATING SPAMMERS AND UNSOLICITED BLOGGERS FROM GENUINE
EXPERTS ON TWITTER” being submitted by

K. RISHI VARADHAN [TL]

19T81A0544

TEJAVATH VAMSIKRISHNA

19T81A0564

PRATHMESH SHASTRI

19T81A0551

in partial fulfillment of the requirements of the award of degree of **Bachelor of
Technology Degree in Computer Science and Engineering, Jawaharlal Nehru
Technological University, Hyderabad**, is a record of bonafied work carried out by them
during the academic year 2022-2023 under the guidance and supervision

The Thesis submitted for external viva voice examination on 30/06/2023


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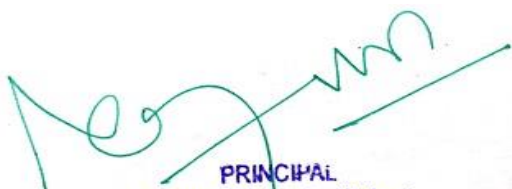
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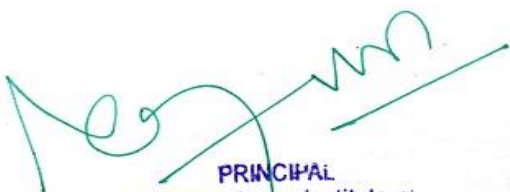


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ABSTRACT

Online Social Networks (OSN s) have not only significantly reformed the social interaction pattern but have also emerged as an effective platform for recommendation of services and products. The upswing in use of the OSN s has also witnessed growth in unwanted activities on social media. On the one hand, the spammers on social media can be a high risk towards the security of legitimate users and on the other hand some of the legitimate users, such as bloggers can pollute the results of recommendation systems that work alongside the OSN

s. The polluted results of recommendation systems can be precarious to the masses that track recommendations. Therefore, it is necessary to segregate such type of users from the genuine experts. We propose a framework that separates the spammers and unsolicited bloggers from the genuine experts of a specific domain. The proposed approach employs modified Hyperlink Induced Topic Search (HITS) to separate the unsolicited bloggers from the experts on Twitter on the basis of tweets. The approach considers domain specific keywords in the tweets and several tweet characteristics to identify the unsolicited bloggers. Experimental results demonstrate the effectiveness of the proposed methodology as compared to several state-of-the-art approaches and classifiers.



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**REAL TIME HUMAN EMOTION RECOGNITION BASED
ON FACIAL EXPRESSION DETECTION USING SOFTMAX
CLASSIFIER AND PREDICT THE ERROR LEVEL OPEN CV**

A Major Project report submitted in partial fulfillment of the requirements of
Jawaharlal Nehru Technological University

For the award of Degree of

Bachelor of Technology
in
Computer Science and Engineering

By

MUTHAMALA VAMSI KRISHNA
NAMPELLI SHIVAJI
BURAGAPU SAI SUJAN

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**"REAL TIME HUMAN EMOTION RECOGNITION BASED ON FACIAL
EXPRESSION DETECTION USING SOFTMAX CLASSIFIER AND PREDICT
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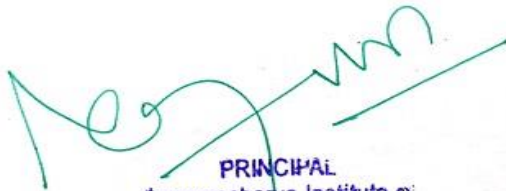
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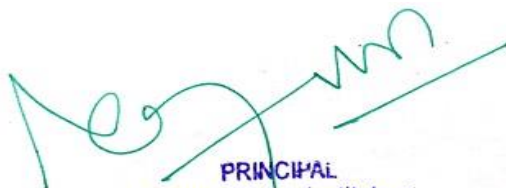


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ABSTRACT

Now-a-days with the continued development of artificial intelligence facial emotion recognition has become more popular. The emotion recognition plays a major role in interaction technology. In interaction technology the verbal components only play a one third of communication and the non-verbal components plays a two third of communication. A facial emotion recognition (FER) method is used for detecting facial expressions. Facial expression plays a major role in expressing what a person feels and it expresses inner feeling and his or her mental situation or human perspective. This paper aims to identify basic human emotions with the combination of gender classification and age estimation. The facial emotions such as happy, sad, angry, fear, surprised, neutral emotions are considered as basic emotions. Here proposes a real time facial emotion recognition system based on You Look Only Once (YOLO) version 2 architecture and a squeeze net architecture. The yolo architecture is a real time object detection system. Here it used for identify and detect faces in real time. These images are captured by using anchor boxes for accuracy. The second architecture is squeeze net and is used for gender classification and age estimation. It provides significant, accurate object detection and extracts high-level features that help to achieve tremendous performance to classify the image and detecting objects. Both the architectures provide accurate result than other methods with the large no of hidden layers and cross validation in the neural network.



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**PLANT DISEASE IDENTIFICATION AND PESTICIDES
RECOMMENDATION USING CNN**

A Major Project report submitted in partial fulfillment of the requirements of
Jawaharlal Nehru Technological University

For the award of Degree of

Bachelor of Technology
in
Computer Science and Engineering

By

Name of the student

PUNNA PRAVALLIKA
VASPARI ANUSHA
DONTARABOINA SANDEEP

Roll No

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“PLANT DISEASE IDENTIFICATION AND PESTICIDES RECOMMENDATION
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The Thesis submitted for external viva voice examination on 30-06-23


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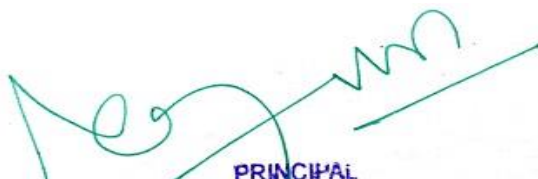
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ABSTRACT

Plant diseases are a major threat to farmers, consumers, environment and the global economy. In India alone, 35% of field crops are lost to pathogens and pests causing losses to farmers. Indiscriminate use of pesticides is also a serious health concern as many are toxic and biomagnified. These adverse effects can be avoided by early disease detection, crop surveillance and targeted treatments. Most diseases are diagnosed by agricultural experts by examining external symptoms. However, farmers have limited access to experts. Our project is the first integrated and collaborative platform for automated disease diagnosis, tracking and forecasting. Farmers can instantly and accurately identify diseases and get solutions with a mobile app by photographing affected plant parts. Real-time diagnosis is enabled using the latest Artificial Intelligence (AI) algorithms for Cloud-based image processing. The AI model continuously learns from user uploaded images and expert suggestions to enhance its accuracy. Farmers can also interact with local experts through the platform. For preventive measures, disease density maps with spread forecasting are rendered from a Cloud based repository of geo-tagged images and micro-climactic factors. A web interface allows experts to perform disease analytics with geographical visualizations. In our experiments, the AI model (CNN) was trained with large disease datasets, created with plant images self-collected from many farms over 7 months. Test images were diagnosed using the automated CNN model and the results were validated by plant pathologists. Over 95% disease identification accuracy was achieved. Our solution is a novel, scalable and accessible tool for disease management of diverse agricultural crop plants and can be deployed as a Cloud based service for farmers and experts for ecologically sustainable crop production.

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ONLINE LEAVE SANCTION APPLICATION FOR STUDENTS

A Major-Project report submitted in partial fulfillment of the requirements
of Jawaharlal Nehru Technological University

For the award of Degree of

Bachelor of Technology
in
Computer Science and Engineering

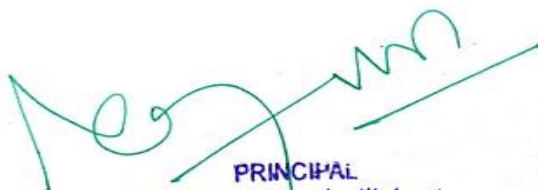
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KALLURI VEENA	19T81A0566
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The Thesis submitted for external viva voice examination on

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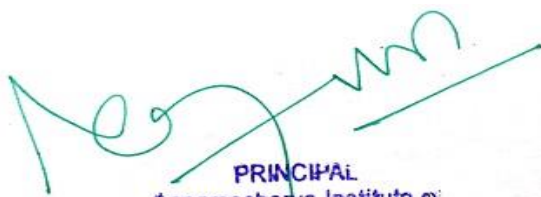
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ABSTRACT

This project is aimed at developing an online leave sanction application for students. It is a web-based application that is developed using JAVA and MYSQL in which the student can apply for leave online for their respective department faculty. This system can be used to automate the workflow of leave applications and their approvals. The faculty can login into the website if there are any notifications. Faculty can accept or reject the leave application of the student based on their attendance percentage or may be based on their reason. The student can also be able to submit the proofs in jpg format if there are any. The leave approval or rejection can be notified to the corresponding student's guardian. Both the faculty and the student will be able to view their leave history. The faculty can be able to view their corresponding students' information like attendance, leave history.



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**MISSING CHILD IDENTIFICATION SYSTEM USING DEEP
LEARNING AND MULTICLASS SVM**

A Major-Project report submitted in partial fulfillment of the requirements
of Jawaharlal Nehru Technological University
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By

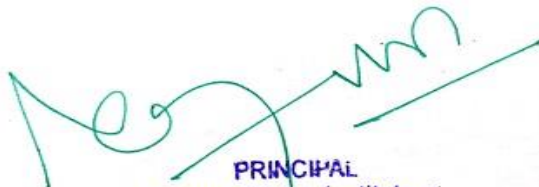
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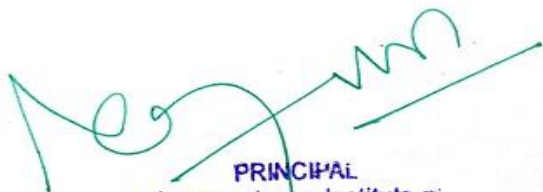
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THADIKONDA MANIKANTA	19T81A0527
GONELA PAVAN KUMAR	19T81A0533

Students of final year B.Tech, **Computer Science and Engineering**,
ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES, HYDERABAD
(affiliated to *J.N.T.University, Hyderabad*), have successfully completed their project titled
“**MISSING CHILD IDENTIFICATION SYSTEM USING DEEP LEARNING AND
MULTICLASS SVM**” in PYTHON DIVISION, CONSCIENCE TECHNOLOGIES (CT),
Hyderabad.

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Project Manager
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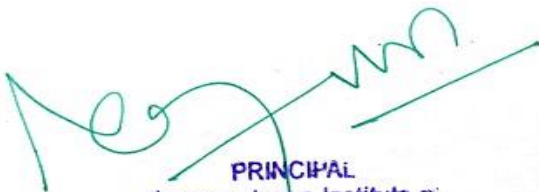
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ABSTRACT

In India a countless number of children are reported missing every year. Among the missing child cases a large percentage of children remain untraced. This paper presents a novel use of deep learning methodology for identifying the reported missing child from the photos of multitude of children available, with the help of face recognition. The public can upload photographs of suspicious child into a common portal with landmarks and remarks. The photo will be automatically compared with the registered photos of the missing child from the repository. Classification of the input child image is performed and photo with best match will be selected from the database of missing children. For this, a deep learning model is trained to correctly identify the missing child from the missing child image database provided, using the facial image uploaded by the public. The Convolutional Neural Network (CNN), a highly effective deep learning technique for image based applications is adopted here for face recognition. Face descriptors are extracted from the images using a pre-trained CNN model VGG-Face deep architecture. Compared with normal deep learning applications, our algorithm uses convolution network only as a high level feature extractor and the child recognition is done by the trained SVM classifier. Choosing the best performing CNN model for face recognition, VGG-Face and proper training of it results in a deep learning model invariant to noise, illumination, contrast, occlusion, image pose and age of the child and it outperforms earlier methods in face recognition based missing child identification. The classification performance achieved for child identification system is 99.41%. It was evaluated on 43 Child cases.



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**PROTECTING YOUR SHOPPING REFERENCE WITH
DIFFERENTIAL PRIVACY**

A Major-Project report submitted in partial fulfillment of the requirements of
Jawaharlal Nehru Technological University
For the award of Degree of
Bachelor of Technology in
Computer Science and Engineering

By

S.ABHISHEK REDDY	19T81A0501
MG.ROHAN	19T81A0514
CH.PAVAN KUMAR	19T81A0534

**Under the guidance of
V.RAMAKRISHNA**



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MG.ROHAN
CH.PAVAN KUMAR

19T81A0501
19T81A0514
19T81A0534

In partial fulfillment for the award of **Bachelor of Technology** in **Computer Science and Engineering** in **ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES**, Piglipur, Batasingaram, Hayathnagar Mandal, Hyderabad during the Academic Year 2022-2023. The above work is carried out under the guidance & supervision.

The Thesis submitted for external viva voice examination on 29/06/23

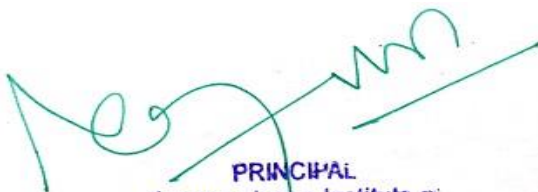

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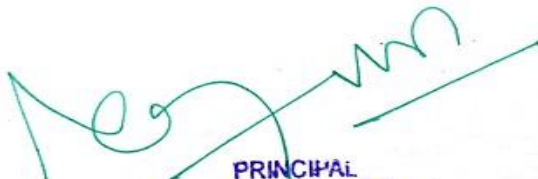
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Project Manager

K. V. REDDY
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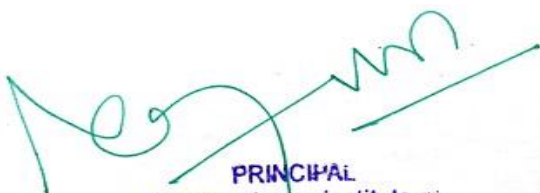

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ABSTRACT

Online banks may disclose consumers' shopping preferences due to various attacks. With differential privacy, each consumer can disturb his consumption amount locally before sending it to online banks. However, directly applying differential privacy in online banks will incur problems in reality because existing differential privacy schemes do not consider handling the noise boundary problem. In this paper, we propose an Optimized Differential private transaction scheme (O-DIOR) for online banks to set boundaries of consumption amounts with added noises. We then revise O-DIOR to design a RO-DIOR scheme to select different boundaries while satisfying the differential privacy definition. Moreover, we provide in-depth theoretical analysis to prove that our schemes are capable to satisfy the differential privacy constraint. Finally, to evaluate the effectiveness, we have implemented our schemes in mobile payment experiments. Experimental results illustrate that the relevance between the consumption amount and online bank amount is reduced significantly, and the privacy losses are less than 0.5 in terms of mutual information.



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**A THREE-LAYER PRIVACY PRESERVING CLOUD STORAGE
SCHEME BASED ON COMPUTATIONAL INTELLIGENCE IN
FOG COMPUTING**

A Major-Project report submitted in partial fulfillment of the requirements of
Jawaharlal Nehru Technological University

For the award of Degree of
Bachelor of Technology
in
Computer Science and Engineering

By

DINESH MUSINI	19T81A0513
NITHYA SIRIPURAM	19T81A0531
CHANDRIKA PENUGONDA	19T81A0511

**Under the guidance of
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CERTIFICATE

This is to certify that the major project work entitled **“A THREE-LAYER PRIVACY PRESERVING CLOUD STORAGE SCHEME BASED ON COMPUTATIONAL INTELLIGENCE IN FOG COMPUTING”** being submitted by

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In partial fulfillment for the award of Bachelor of Technology in Computer Science and Engineering in **ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES**, Piglipur, Batasingaram, Hayathnagar Mandal, Hyderabad during the Academic Year 2022-2023. The above work is carried out under the guidance & supervision. The Thesis submitted for external viva voice examination on 29/06/2023.


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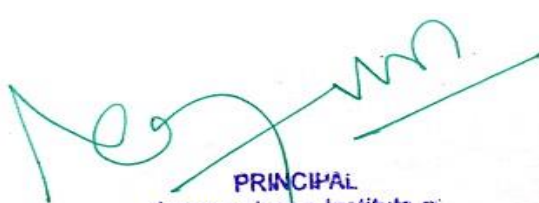
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PROJECT COORDINATOR


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PERSONAL VOICE ASSISTANT

A Mini-Project report submitted in partial fulfillment of the requirements of Jawaharlal Nehru Technological University

For the award of Degree of

Bachelor of Technology in
Computer Science and Engineering

By

P KRISHNA CHAITANYA 19T81A0522
K JAGADEESH REDDY 19T81A0518
G MANOJ KUMAR 19T81A0528

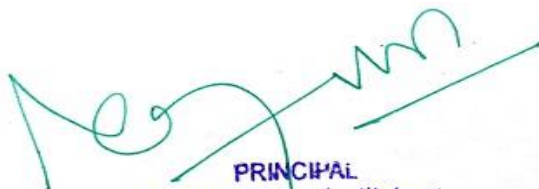
Under the guidance of

V. RAMA KRISHNA M.TECH (Pursuing Ph.D)
Asst. Professor, CSE Department



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This is to certify that the minor project work entitled “PERSONAL VOICE ASSISTANT”
being submitted by

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K JAGADESSH REDDY
G MANOJ KUMAR

19T81A0522
19T81A0518
19T81A0528

In partial fulfillment for the award of **Bachelor of Technology in Computer Science and Engineering** in **ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES**, Piglipur, Batasingaram, Hayathnagar Mandal, Hyderabad during the Academic Year 2022-2023. The above work is carried out under the guidance & supervision.

The Thesis submitted for external viva voice examination on 29/06/23.


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PROJECT COORDINATOR


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EXTERNAL EXAMINER


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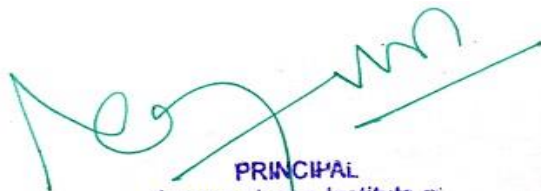
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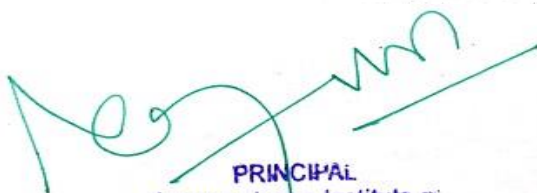
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ABSTRACT

Voice control is a major growing feature that change the way people can live. The voice assistant is commonly being used in smartphones and laptops. AI-based Voice assistants are the operating systems that can recognize human voice and respond via integrated voices. This voice assistant will gather the audio from the microphone and then convert that into text, later it is sent through GTTS (Google text to speech). GTTS engine will convert text into audio file in English language, then that audio is played using play sound package of python programming Language.

it will look at examples of intelligent programs with natural language processing that are currently available, with different categories of support, and examine the potential usefulness of one specific piece of software as a VPA. This engages the ability to communicate socially through natural language processing, holding (and analyzing) information within the context of the user. It is suggested that new technologies may soon make the idea of virtual personal assistants a reality. Experiments conducted on this system, combined with user testing, have provided evidence that a basic program with natural language processing algorithms in the form of a VPA, with basic natural language processing and the ability to function without the need for other type of human input (or programming) may already be viable.



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