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CERTIFICATE

This is to certified that the project entitled "Image Captioning Generation Using Lstm Based On Rnn Model" is a bonafide work of "Aslain Ansari, Devang Patil , Sandeep Narvade, Shayaan Shaikh" submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of "Bachelors of Engineering" in "Computer Engineering."

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Abstract

In recent years, with the rapid development of artificial intelligence, image caption has gradually attracted the attention of many researchers in the field of artificial intelligence and has become an interesting and arduous task. Image caption, automatically generating natural language descriptions according to the content observed in an image, is an important part of scene understanding, which combines the knowledge of computer vision and natural language processing. The application of image caption is extensive and significant, for example, the realization of human-computer interaction. This paper summarizes the related methods and focuses on the LSTM-RNN architecture, which plays an important role in computer vision and is recently widely used in image caption generation tasks. Furthermore, the advantages and the shortcomings of these methods are discussed, providing the commonly used datasets and evaluation criteria in this field. Finally, this paper highlights some open challenges in the image caption task. With the development of deep learning, the combination of computer vision and natural language process has aroused great attention in the past few years. Image captioning is a representative of this field, which makes the computer learn to use one or more sentences to understand the visual content of an image. The meaningful description generation process of high level image semantics requires not only the recognition of the object and the scene, but the ability of analyzing the state, the attributes and the relationship among these objects. Though image captioning is a complicated and difficult task, a lot of researchers have achieved significant improvements. In this paper, we will be making image caption generator based on LSTM-RNN architecture



A handwritten signature in blue ink, appearing to read "Vikram N..."

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ABSTRACT

Writing in air has been one of the most fascinating and challenging research areas in field of image processing and pattern recognition in the recent years. It contributes immensely to the advancement of an automation process and can improve the interface between man and machine in numerous applications. Several research works have been focusing on new techniques and methods that would reduce the processing time while providing higher recognition accuracy. Object tracking is considered as an important task within the field of Computer Vision. The invention of faster computers, availability of inexpensive and good quality video cameras and demands of automated video analysis has given popularity to object tracking techniques.

Generally, video analysis procedure has three major steps: firstly, detecting of the object, secondly tracking its movement from frame to frame and lastly analyzing the behavior of that object. For object tracking, four different issues are taken into account: selection of suitable objects representation, feature selection for tracking, objects detection and object tracking. In real world, Object tracking algorithms are the primarily part of different applications such as: automatic surveillance, video indexing and vehicle navigation etc. The project takes advantage of this gap and focuses on developing a motion-to-text converter that can potentially serve as software for intelligent wearable devices for writing from the air. This project is a reporter of occasional gestures. It will use computer vision to trace the path of the finger. The generated text can also be used for various purposes, such as sending messages, emails, etc. It will be a powerful means of communication for the deaf. It is an effective communication method that reduces mobile and laptop usage by eliminating the need to write.




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This is to certified that the project entitled **“ONLINE VOTING SYSTEM”** is bonafide work of **“SIRUTI BARI, PURVA GAWADE, RIDDHI GHARAT , ROSHANI PATHAK”** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **“Bachelor of Engineering”** in **“Computer Engineering”**.


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ABSTRACT

The Project is developed for the threat free and user oriented E- Voting System. The E-Voting system is made for the people of the country residing around the World and wants to vote for their representative. The automated ballot elections Are called the electronic voting. An online voting system for Indian election is Proposed for the first time in this paper. The proposed model has a secure Authentication for greater security in the sense that voter high security password is Confirmed before the vote is accepted in the main database of Election Commission of India. The additional feature of the model is that the voter can Confirm if his/her vote has gone to correct candidate/party. In this model a person Can also vote from outside of his/her allotted constituency or from his/her preferred location. In the proposed system the tallying of the votes will be done automatically, thus saving a huge time and enabling Election Commissioner of India to announce the result within a very short period. An online voting system for Indian election is proposed for the first time in this paper. The proposed model has a greater security in the sense that voter high security password is confirmed before the vote is accepted in the main database of Election Commission of India. The additional feature of the model is that the voter can confirm if his/her vote has gone to correct candidate/party. In this model a person can also vote from outside of his/her allotted constituency or from his/her preferred location. In the proposed system the tallying of the votes will be done automatically, thus saving a huge time and enabling Election Commissioner of India to announce the result within a very short period. Keywords: Authentication, Voting, Unique key.




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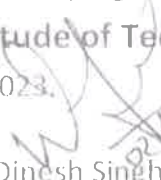


Bachelors in Computer Engineering CERTIFICATE

This is certify the report on project entitled "**SMART HOME AUTOMATION SYSTEM**" Submitted by **Miss.Dhanashree Gajanan Jadhav(11),Miss.Manasvi Arvind Patil(22),Miss.Nivedita Prabhakar Patil(23),Miss.Ruchita Nandakumar Patil(24)**

For the partial fulfilment of the requirement for qualifying **Bachelor in Computer Engineering** from **Ideal Institute of Technology** is a bonafide work carried out during academic year 2022-2023.


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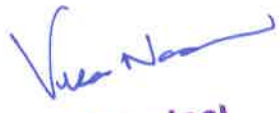



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ABSTRACT

The fast growing world needs various technologies to improve quality of life. The Internet of Things is one such technology impacting human lives. The Internet of Things is a network exchanging the data/information between the devices having Internet connectivity, sensing and computing capabilities. Now-a-days we use many electrical devices at homes, industries, offices, institutions that are controlled manually. To control all electrical devices we need a lot of "MAN POWER". If manpower increases maintenance cost also rises. This causes a disbenefit to the industry. So to avoid these kind of drawbacks we need some wireless controlling systems. One such wireless communication system to be used is Bluetooth communication system. This communication system can be used in all fields like industry, domestic purposes like home appliances controlling using Bluetooth as a remote. This system can be helpful for elderly or disabled persons who are unable to go to the switch board to control the devices. Remote operation is using smart phones or devices with Android operating system, upon a GUI(Graphical User Interface) based voice command.




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This is to certified that the project entitled “**DRIVER DROWSINESS DETECTION SYSTEM**” is bonafide work of

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ABSTRACT

Drowsiness is sleepiness of driver drowsiness detection is checking or detecting of sleepiness. Drowsiness detection is the most important problem in real life. Drowsiness is recognized with the help of software-oriented program. Many deaths are real life example of drowsiness. According to available statistical data, over 1.3 million people die each year on the road and 20 to 50 million people suffer non-fatal injuries due to road accidents. The long-distance travelling requires or need more this project to be run more efficiently. The purpose of drowsiness detection is to detect whether driving person is sleepy or not, if the person is sleepy then beep voice will be alarmed to take away from sleepiness and driving person will get alert. Drowsiness detection is designed in which it consists of webcam which will identify the face driving person, as the driver's eyelashes will be open or closed, it will be counted or scored and displayed on screen. This paper presents scoring of drowsiness detection in short: we can say as our life very important for us, a single step can take in different way. The result of this paper can used life saver project. There are many projects available on topic drowsiness detection but they are costly, inefficient and hardware oriented. to overcome above drawbacks we have designed this system.

Keywords — Drowsiness, Distraction, Eye detection, Eye Tracking, Face Detection.




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This is to certified that the project entitled **“MOBILE SECURITY APPLICATION”** is bonafide work of **“KHAN FAISAL ANWAR, KUMBHAR HRISHIKESH SUNIL, PAL HEMANT KAMLESH, YADAV DEEPAK BAIDYANATH”** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **“Bachelor of Engineering”** in **“Computer Engineering”**.

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ABSTRACT

A tracking application for lost or stolen android mobile-phones using face detection. At present android Smartphone is one of the most commonly used and popular Smartphones. In the few years the market of android Smartphone has been booming. Due to over popularity of android Smartphone, security is one of the most important issue. Losing or stolen mobile phone is a very common incident for mobile phone users. At present there are a few android phone tracker applications in the market for tracking the lost or stolen android mobile phones. These provide some basic features for tracking a phone. But, users want more reliable features to get back the lost phones. This paper introduces a phone tracker application for android device using face detection. This application will help to get the image of that person, who is currently using the phone. After identifying an unauthorized access of the phone the application will take an image using hidden front camera with face detection and send it to a present mobile number. Thus, this application will help the user to get the alert whenever someone tries to steal the mobile phone/android phone from some place, someone pocket, or the mobile in charging condition. This software is freely available. The main advantage of this application is anyone can use it without having much knowledge about the device. The application meets user's immediate and long term requirements by providing the alert at the time of stealing. The developed anti-theft app will enable user to use his android based smartphone with freedom of getting stolen. It will enhance the security of the android based smartphone.



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ABSTRACT

Pets World is an application which is simple and easy to use and which is useful for doctors and customers. The need for convenient ways to access technology is expanding. It make daily life easier for the common pets owners. This form of animal care not only makes pet owner easier for both pets and domestic animals because tests and check ups are performed at only one location. physicians believe apps will also enhance their interaction with animals. This technology in the delivery of veterinary clinical care. Use of mobile devices for domestic disease and breed of animals, their use in veterinary medicine is lagging. Through use of an online application a sampling of veterinarians were queried to investigate whether the doctor is available or not. With the use of mobile technology we had improvement in there care.

Veterinarians believe there is a strong desire for mobile technology in veterinary medicine and the use of this technology will allow them to practice more effectively. Results showed mobile devices if there are two/three doctors available at a time. the pet owner can make choice between doctors. Also someone has to buy or sell a pet they can use this application. By using this application people can buy food of their pets Pet blood donation is the initiative taken by pets World. In this project we are using Tensorflow for breed prediction. use decision tree algorithm for disease identification by giving the inputs. For finding nearby veterinary hospitals we use google maps. The main objective of this application is to provide non exhausting way to take care of your pet based on android mobile application.



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This is to certified that the project entitled **"Talk To Me"**
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SANJAY MORE ROLL NO:18, MIRUNAL SANJAY SURVE ROLL NO:35"**
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ABSTRACT

- In today's world every other person seems to have a mental disorder and unstable mental health which is quite evidently ignored and non-taken care of resulting in over 264 million people suffering with depression and other mental illnesses.
- It is observed that people tend to hesitate in sharing what they are going through by the fear of being judged or made fun of their emotions. After a point such people tend to lose control over themselves, do not realise what they're up to and unknowingly get inclined towards negative society leading to depression, suicidal attempts and many such emotional weaknesses which no one would ever imagine.
- Keeping these strands in mind and thinking of developing something that would reduce this, here's "Talk To Me" - an application providing a platform to every individual out there to exhibit their mind and be vocal to someone entirely without any hesitation. The biggest advantage of this application would be that one can anonymously login and verbalize anything without any hesitance.
- The application would provide an individual a single platform where one can express their ups and downs, confess good as well as bad acts and speak out even their darkest secrets without any making them rethink. Here, all emotions would be valued and that would indeed uplift one's esteem leading to improvement in one's ongoing state. This application wouldn't just look into the sad moments but also ensure that jovial, cheerful moments are acknowledged with praise and cherished more with the people along.
- It can even help you find someone who is going through the same and would help you get along, lift each other and be the jolly person you have lost hope you could ever be. There could be a probability that you meet someone who has been through the same and would understand you even better and motivate you to help recuperate even quickly. In extreme situations one can approach a counsellor who would be a verified volunteer from the application's end.
- A counsellor being a trained person to give guidance on any personal or psychological would appositely advise and assist the person. Adding one more section to the application, there would be "Topmost" which would analyse the words searched for or used by the user and display posts relevantly.
- Apart from this, Daily Emotion Tracking System is another important feature which would ensure analysing current emotions of the person. It would ensure keeping track of the emotions periodically giving us a record of the person's emotions on the basis of weeks, months and complete year.
- This would indirectly help us understand the gradual growth in condition of the person or vice-versa. The application doesn't just believe in helping people by conversations but by analysing their activities and hobbies.
- So, if they feel that the person isn't coping with us, getting into the negative phase or to ensure that person doesn't get back into a terrible phase, it would display content to watch or provide tasks based on their hobbies.
- So, whoever the person is, come and Talk To Me and Be happy in the precious life which we have offered once by God or Nature.
- Talk to Me.



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This is to certified that the project entitled “Bluetooth Chat Application” is a bonafide work of “Vamshik Maidham and Sujit Waghmare” submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of “Bachelors of Engineering” in “Computer Engineering.”

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Abstract

The main aim of this research paper is to analyze Bluetooth chat software and technology. The analysis should include market and users need in order to be able to fabricate the Bluetooth chat application and make it available for users as a helpful utility and entertaining application. This research paper is mainly motivated to solve certain problems related, for example, to disable student and in general to collaborative learning. The developed system should offer some useful services as exchanging text messages and files. As this application is depending on Bluetooth, the goal of the paper attempts to revive the Bluetooth usage again and make it usable continuously and daily as the Internet, taking in mind the difference in the potentials between them. The software has been developed as an Interactive and collaborative learning aid. That tool could benefit normal students as well as students with disability. Short Messaging Service (SMS) offers the same services as Bluetooth Chat for a fee; but the developed Bluetooth Chat Messenger is free. With the development of digital technologies in recent decades, there has been drastic change in the mode of communication and usages of digital accessories in our today lives. It is sure that invention of mobile phone/smartphone has enhanced our life standard and made life easier. The main aim of this research paper is to analyze, design, build and test Bluetooth chat software. The software has been developed as an Interactive and collaborative learning aid. That tool could benefit students in general specially students with disability. Using the developed system, disable students can connect with their peer students, who are within Bluetooth range, without having access to Wi-Fi or Internet. The application does not require any Internet connection, the application works just with Bluetooth connectivity, users can send free message to their friends sitting over classroom, school playgrounds and festivals, when nearby, without a cellular connection or Wi-Fi. Moreover, the application is very easy to use, Bluetooth messaging is also great for making new friends in a library or chatting up someone in crowded places, because one can hook up with anyone who has a Bluetooth-enabled phone. There were previous attempts to create a similar product with little success. Short Messaging Service (SMS) offers the same services as Bluetooth Chat for a fee; but the developed Bluetooth Chat Messenger is free. The research will elaborate on the details.




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ABSTRACT

In these modern days people have become so much concerned about their health and diet; it is but obviously that they seek out for gym. Gym is equipped with all the modern machineries and other supportive items to provide a better service to its customers. So, the numbers of members are tent to increase day by day and Gym Management has decided to go for an IT solution in order to handle the increased volumes.

Development was carried out after identifying the user requirements by using different data gathering technics to ensure clarity of the requirements. Based on the requirements software was designed and developed in iterative and incremental development method.

Software is developed with the aim of replacing the current manual system which was using at the Gym. The system supposed to provide easy access of the resources of the gym to its members while empowering the management process of the gym. Following major functionalities such as member management, attendance management, charges management, maintenance management and reports generation were identified. Access control was achieved with the user name and password. User access levels were also implemented to control the accessibility of the system.

The system has the capability of suggesting the best workout schedules that suit to the members while keeping the harm full workouts away depending on the members' physical condition. The system also capable of notifying the delayed payments and pending services of exercise machines. High level of customization is embedded in to the system where administrator can control the access and appearance of the system. System is developed as a web-based application, so the accessibility is high around the world.

System was developed with PHP, Apache, MySQL, Xampp, HTML, CSS, JavaScript, Bootstraps framework was used for the development. Adobe Dream viewer CS 6 was used as the editing tool throughout.

Final product is tested thoroughly and delivered to the end user on agreed date

Currently the system is on live in Muscle power gym at Godagamaand the system is used by the members and the administration in a satisfied manner.

