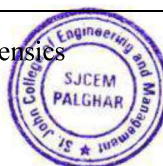


Criteria 3- Research, Innovations and Extension

3.4.4 Details of books and chapters in edited volumes / books per teacher during the year

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Sr. No.	Branch	Name of Teacher	Title of the Book published	ISBN of the Book/Conference Proceeding	Name of the Publisher
1	ASH	Dr. Eknath Patil	Perspectives on Business Communication in the Digital Age	ISBN- 978-93-6095-062-0	Authors press
2	AIML	Dr. Amruta Mhatre Mrs. Rosy Pradhan	Application of Deep learning of Solving Problem	ISBN-978-93-6674-699-9	Scientific International Publication House
3		Mrs. Abira Banik	Generative AI for Cultural Heritage Preservation Using AR and Data Science (ICMLAS 2025)	ISBN:64557.2 025.10968619	Institute of Electrical and Electronics Engineers
4		Mrs. July Tarade	“Farm Connect: AI Driven Disease Detection and Farmer Support System” In Proc. 16th Int. Conf. on Intelligent Computing and Networking (IC-ICN 2025), India, Feb 2025.	ISBN:979-8-9928048-1-2	Multicon-w-2025
5		Mrs. July Tarade	“ Next Generation Voting System”In Proc. 16th Int. Conf. on Intelligent Computing and Networking (IC-ICN 2025), India, Feb 2025.	ISBN:979-8-9928048-1-2	Multicon-w-2025
6		Mrs. July Tarade	“ Environmental Sound Classification for Wildlife Monitoring using Deep Learning” In Proc. 16th Int. Conf. on Intelligent Computing and Networking (IC-ICN 2025), India, Feb 2025.	ISBN:979-8-9928048-1-2	Multicon-w-2025
7		Mrs. July Tarade	“Security and Surveillance Bot” In Proc. 16th Int. Conf. on Intelligent Computing and Networking (IC-ICN 2025), India, Feb 2025.	ISBN:979-8-9928048-1-2	Multicon-w-2025
8	CIVIL	Mr. Ashok Meti, Mr. Swapnil Malipatil	Enhancing Seismic Resilience of Telecommunication Towers: Impact of Viscous Damper	ISBN-978-81-981367-9-4	Deep Science Publishing
9	Computer	Dr. Nilesh deotale, Mr. Ajay sirsat, Dr. Mahesh Maurya	Cyber Security and Digital Forensics	ISBN-978-93-6674-460-5	Scientific International Publication House





10		Dr. Kamal Shah, Mrs. Dipti Lopes, Mrs. Uttara Dalavi Mrs. Subhasini Shukla,	Quantum Computing	ISBN No. 978-93-48655-62-2	RLK Enterprises Publication
11		Ms. Janhavi sangoi	AI Powered Energy Management For EV Charging Stations	ISBN-978-93-6674-312-7	Scientific International Publication House
12		Dr. Pandharinath Ghonge, Mrs. Subhasini Shukla, Mrs. Parul Jha, Ms. Aishwarya Churi	Basic Electrical & Electronics Engineering	ISBN-978-93-48655-52-3	RLK Publication
13		Mr. Sandip Patil	Artificial Intelligence and Soft Computing - Fundamentals	ISBN:978-93-6674-438-4	Scientific International Publication House
14	EXTC / ECS	Ms. Oniza R. Shaikh, Mrs. Meenal Kate	AIML with IOT Applications	ISBN-978-93-6674-614-2	Scientific international Publication House
15		Mr. Sachin Sase	Artificial Intelligence	ISBN-978-93-6674-726-2	Scientific International Publication House



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Introduction

Welcome to the "Perspectives on Business Communication in the 21st Century." In this editorial compilation, you embark on a journey through the rapidly evolving landscape of business communication, where digital technologies have become the cornerstone of connectivity and collaboration.

In today's dynamic global economy, effective communication is more than just conveying information – it's about building relationships, fostering trust, and driving innovation. The digital age has not only revolutionized the way we communicate but has also fundamentally transformed the nature of business itself. From startups to multinational corporations, organizations must adapt to the challenges and opportunities presented by this digital revolution.

This book serves as a comprehensive exploration of the multifaceted dimensions of business communication in the digital age. Through a collection of insightful chapters, essays, case studies, and expert analyses, the editor delves into the intricacies of communication strategies, tools, and trends that are shaping the modern business landscape. From the rise of social media and the proliferation of mobile technologies to the emergence of artificial intelligence and virtual collaboration platforms, the editor examines how these advancements are redefining the way businesses engage with customers, employees, and stakeholders. Moreover, he scrutinizes the impact of digital communication on organizational culture, ethics, and leadership practices, offering valuable insights for navigating the complexities of today's interconnected world.

Drawing upon diverse perspectives from scholars, industry practitioners, and thought-leaders, this book aims to provide readers with a holistic understanding of the challenges and opportunities inherent in contemporary Business Communication. Whether you are a seasoned executive, an aspiring entrepreneur or a communication professional, this book offers a practical guidance



Harnessing SWOT Analysis for Strategic Success

Dr. Eknath Patil

Abstract

The present chapter aims to explore the nuances of doing personal/organisational SWOT analysis. It offers professionals and students a thorough manual for realising their full potential and making the most of their career trajectories. To demonstrate the value of SWOT analysis in strategic planning and decision-making, this study examines the use of SWOT analysis in both personal and organisational situations. The research also offers a thorough overview of how SWOT analysis may be applied to identify and harness both internal and external elements that affect organisational growth and personal development. It involves a precise framework for understanding and managing both internal and external influences, making well-informed decisions easier, and encouraging ongoing development. To attain long-term success and flexibility in a changing environment, the chapter advises readers and organisations to take a proactive approach to SWOT analysis. The research on Personal and Organisational SWOT Analysis is succinctly summarised in this abstract. It highlights the usefulness of tools and the importance of strategic planning and decision-making procedures. The study concludes that SWOT analysis is an essential tool for personal and organisational growth. As a skills trainer and a faculty member, it has been observed that most UG/PG students feel too shy to conduct/share their personal SWOT analysis with hiring managers. They are afraid of their weaknesses and ignorant about threats coming their way ahead. At times, internal attributes of an individual have been ignored which hamper the growth and development of the individual. This also leads to an inferiority complex resulting in failures. To overcome this problem in time, a sincere attempt has been made to ace SWOT analysis and enhance learners' employment/entrepreneurial skills, and personal, career, professional, and organisational development.

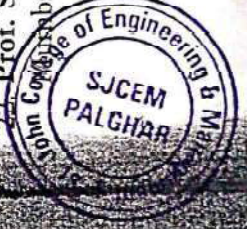
Keywords: SWOT Analysis, Personal Development, Organisational Growth, Strategic Planning, Decision-Making, Internal Factors, External Factors, Continuous Improvement



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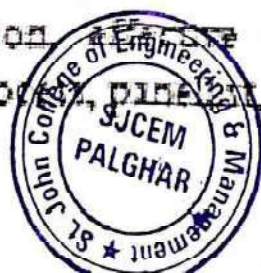
Group Discussion Skills: A Gateway to Success

Dr. Eknath Patil

Abstract

The present chapter is aimed at training UG/PG students, young graduates, candidates, industry workers, and the young workforce about using group discussion skills. It highlights the nature and scope of group discussion. Group Discussion (GD) skills are essential competencies that facilitate effective communication, critical thinking, and collaborative problem-solving in both professional and academic settings. These skills play a pivotal role in a variety of situations, such as team-based initiatives, hiring procedures, and organisational decision-making. Gaining proficiency in GD skills helps individuals listen intently, express themselves clearly, and participate in discussions in a productive way. They are frequently evaluated throughout the hiring process to determine a candidate's capacity for critical thought, effective communication, and teamwork. Collaborative efforts, targeted goals, lively conversations, moderation, and outcome-driven objectives are characteristic of productive group talks. Group Discussion skills allow one to think more critically, communicate and interact with others more effectively, and generate original ideas and creative solutions. Furthermore, by boosting confidence, these skills aid in personal growth. In a nutshell, general decision-making (GD) abilities are very important for negotiating cooperative settings, arriving at well-informed conclusions, and making a significant contribution to group projects. These abilities also greatly improve an individual's employability, career development, and general capacity to perform well in a variety of group situations. Therefore, a concise attempt has been made to ace and crack group discussion sessions and enhance learners' employment skills, and personal and professional development.

Keywords: Group Discussion, communication, critical thinking, problem-solving, hiring process, evaluation, employability.



Authors Profile



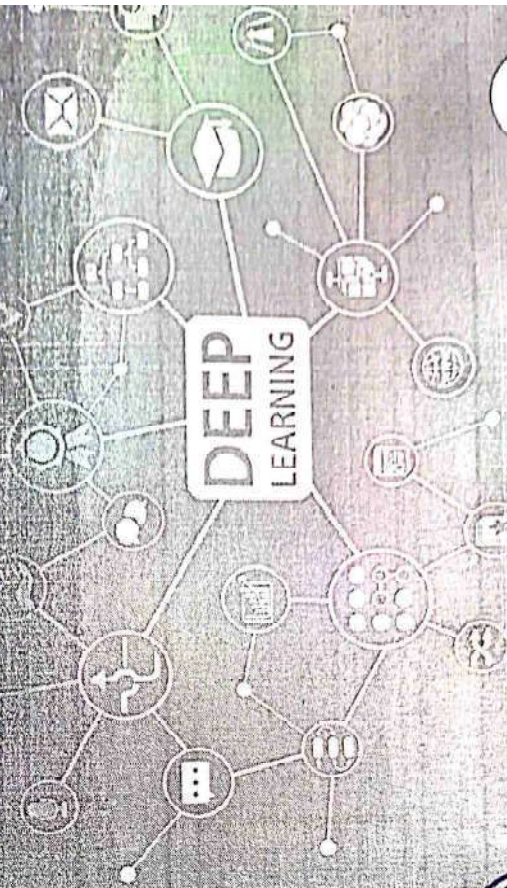
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APPLICATION OF DEEP LEARNING SOLVING REAL WORLD PROBLEMS



Prof. Rosy Pradhan
Dr. Amrta Avinash Mahto
Mr. Jayarajesh Vallam
Dr. Narotam Singh

APPLICATION OF DEEP LEARNING: SOLVING REAL WORLD PROBLEMS



Scientific International
Publishing House



Generative AI for Cultural Heritage Preservation Using AR and Data Science

Publisher: IEEE [Cite This](#) [PDF](#)

Sekshi C. Mogre ; Jay S. Nikam ; Punit Damani ; Abira Bank [All Authors](#)

1 Cites in Paper **158** Full Text Views

Abstract

Abstract:

Cultural heritage artifacts are invaluable to understanding our shared history and cultural identity. However, these artifacts are increasingly at risk due to aging, environmental factors, activities and humans. This paper explores the integration of Generative AI, augmented reality (AR), and data science in cultural heritage preservation. Generative AI facilitates the restoration of damaged or missing parts of artifacts, while AR provides immersive, interactive experiences, enhancing accessibility and engagement. Data science contributes by analyzing historical and environmental data to inform conservation strategies. This innovative approach demonstrates the potential to transform cultural heritage preservation, ensuring sustainability and accessibility for future generations.

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Document Sections

- I. Introduction
- II. Literature Survey
- III. Methodology
- IV. Proposed System
- V. Implementation

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Farm Connect: AI Driven Disease Detection & Farmer Support System

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Abstract— The global agricultural sector faces critical challenges due to plant diseases that reduce crop yields and threaten food security. This research focuses on the development of a web-based system, Farm Connect, which integrates artificial intelligence (AI) to assist farmers in early plant disease detection, providing predictive analysis to mitigate crop losses, and offering a recommendation engine for products and services. Agriculture is the foundation of many economies, and crop health is vital for sustaining productivity and food security. However, obstacles like plant diseases and a lack of prompt assistance often make farming difficult. The novel AI-powered system, Farm Connect, integrates a pretrained deep learning model, MobileNetV2, trained on a dataset of over 39 plant disease classes to detect diseases with high accuracy. Additionally, the system includes a chatbot capable of providing disease-related solutions, farming advice, and product recommendations based on the identified diseases. The system offers a reliable solution for detecting and predicting plant diseases, ultimately empowering farmers by improving crop management. This paper presents the system's design, implementation, and the potential impact on modernizing agriculture, with a focus on over 91.33% accuracy in disease detection, as demonstrated by the system's evaluation on the provided dataset.

Keywords: Plant disease detection, AI in agriculture, Deep learning, MobileNetV2, Chatbot, farmer support system.

I. INTRODUCTION

Plant diseases pose a serious danger to the world's food security since they lower crop yields and result in losses. Traditional manual detection techniques are labor-intensive, prone to mistakes, and frequently unavailable to farmers, which causes remedies to be delayed. The development of AI, ML, and DL has led to automated methods that provide precise and effective disease identification. MobileNetV2 is used in this study to classify plant diseases with 91.33% accuracy. An AI-powered chatbot is also used to provide

immediate treatment advice. The technology increases agricultural output, reduces crop losses, and encourages sustainable farming methods by incorporating AI-driven technologies.

This research uses images of leaves to identify plant illnesses using Convolutional Neural Networks (CNNs), namely MobileNetV2. Both healthy and diseased leaf samples from the Plant Village Dataset are used to train the model. Rotation, flipping, color jittering, Gaussian blur, and random affine transformations are examples of sophisticated data augmentation techniques that have been used to improve model generalization and avoid overfitting. Adam optimization is used in conjunction with L2 regularization and a learning rate scheduler during the training phase to guarantee optimal convergence. The system's durability in real-world applications is demonstrated by its excellent accuracy, which includes a Test Accuracy of 91.33%, Train Accuracy of 90.00%, and Validation Accuracy of 90.69%, F1 Score of 0.9160. To assess the model's performance across several disease categories, a classification report and confusion matrix are also produced. This AI-powered system offers a scalable and effective way to identify plant diseases, enabling farmers to take preventative action to safeguard their crops and raise agricultural output.

"Farm Connect: AI Driven Disease Detection and Farmer Support System" has several shortcomings, one of which is the scarcity of high-quality datasets for AI model training. The algorithm might have trouble correctly identifying and diagnosing plant illnesses in the absence of sufficient labeled data, which could result in inaccurate predictions. Furthermore, the chatbot can only speak English at this time, which makes it inaccessible to farmers who speak other languages. The usefulness of the method may be further



Next Generation Voting System

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Abstract— This project focuses on the development of a secure and efficient voter identification system utilizing advanced face and iris recognition algorithms to enhance the integrity of electoral processes. With the rapid growth of the global population, ensuring accurate voter verification has become increasingly essential. Traditional voter identification methods, such as physical IDs and fingerprinting, face challenges including inefficiency, fraud, and human error, which can undermine public trust in the electoral system.

To address these concerns, our system combines face and iris recognition technologies to create a robust solution for voter verification. The system captures high-quality images of the voter's face and iris, which are then processed through advanced algorithms to match these unique features against a secure database. This dual biometric approach significantly enhances accuracy and reduces the risk of identity fraud, ensuring only eligible voters can participate.

The system's real-time processing capabilities enable immediate verification, streamlining the voting process and reducing wait times. A user-friendly interface ensures accessibility for all voters, including those in remote or underserved areas without physical IDs.

By strengthening electoral security, the proposed system aims to foster greater public confidence in elections and encourage higher voter participation. Moreover, it lays the foundation for future innovations in secure voter identification technologies, providing a scalable solution to meet evolving security challenges. Ultimately, this project seeks to ensure fair, transparent, and trustworthy elections, contributing to the strengthening of democratic processes worldwide.

Keywords: Voter Identification, Face recognition, Iris recognition, Electoral security, Voter verification, User-friendly interface, Election integrity, Secure database, Real-time processing, Technological improvements.

I. INTRODUCTION

This project aims to enhance election security, efficiency, and accessibility by utilizing face and iris recognition technologies for voter identification. By capturing high-quality images of voters' faces and irises, the system ensures precise verification through advanced biometric algorithms. Real-time matching against a secure database enables immediate voter authentication, reducing fraud and minimizing human errors. The user-friendly interface makes the system accessible to all, including those without physical IDs or in remote areas. Ultimately, this approach seeks to create a more secure, fair, and inclusive voting process, improving both the accuracy and speed of voter verification.

While the proposed face and iris recognition-based voter identification system offers numerous advantages, it also presents several potential drawbacks. One primary concern is the accuracy of the system, as face and iris recognition can be affected by variables such as lighting

conditions, facial expressions, aging, or physical obstructions like glasses or facial hair. These factors could result in mismatches or false rejections, leading to legitimate voters being denied access or, conversely, fraudulent individuals gaining access to vote. Additionally, the collection and storage of sensitive biometric data raise significant privacy and data security concerns. There is a potential risk of data breaches or misuse, necessitating robust safeguards to protect voter privacy.

Technologically, the system's performance may be compromised by hardware limitations, such as the quality of the cameras used for capturing facial and iris images, or by environmental factors that affect image clarity. Furthermore, the reliance on biometric data may not adequately account for all potential variations in voter appearance, particularly in diverse populations. The infrastructure required for implementing such a system could also be challenging in remote or underdeveloped areas, where access to high-quality cameras, stable internet, or necessary technological resources may be limited. Moreover, if the system's algorithms are not properly trained with diverse data sets, there is a risk of bias and discrimination, which could disproportionately affect certain demographic groups and result in unequal access to voting. Finally, the cost of implementing and maintaining such a biometric system could be a significant barrier, especially for resource-constrained regions, potentially hindering its widespread adoption. These drawbacks underscore the need for careful planning and consideration of ethical, technological, and logistical factors to ensure the system is both effective and equitable.

To mitigate the drawbacks of the proposed system, several corrective measures can be implemented. Enhancing accuracy can be achieved by integrating multi-modal biometrics, combining both face and iris data, alongside the adoption of adaptive learning algorithms that continuously update the model based on real-world data. In terms of privacy and security, it is essential to implement robust data encryption, ensure compliance with data protection regulations such as the GDPR, and apply data anonymization techniques to safeguard personal information. To address infrastructure limitations, particularly in resource-constrained regions, the system can leverage edge computing to enable local data processing. To reduce bias in identification, the system should be trained on diverse datasets representative of various demographic groups and undergo regular audits to ensure fairness. Lastly, the system's robustness can be enhanced through the integration of Local Binary Patterns Histograms (LBPH) with Convolutional Neural Networks (CNNs); coupled with ongoing rigorous testing and validation to ensure optimal performance across diverse environments and



Environmental Sound Classification for Wildlife Monitoring using Deep Learning

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Abstract— In wildlife monitoring systems, environmental sound categorisation (ESC) is essential because it makes it possible to identify and analyse animal vocalisations for species tracking, behavioural trend analysis, and biodiversity assessment. This study proposes a hybrid approach for accurately classifying ambient sounds by integrating Long Short-Term Memory (LSTM) networks with Convolutional Neural Networks (CNNs). CNNs are employed to extract spatial and frequency features from audio spectrograms, while LSTMs capture the temporal relationships inherent in sequential audio data. This combination leverages the strengths of both models to address the challenges of complex acoustic environments. The proposed architecture was evaluated on a comprehensive dataset of animal sounds, comprising diverse habitats, overlapping noises, and varying background noise levels. The hybrid model achieved a classification accuracy of 87.6%, significantly outperforming conventional methods such as standalone CNNs and LSTMs. The results demonstrate the model's robustness in handling intricate acoustic scenarios, making it a reliable tool for ecological research. Key contributions of this study include the successful integration of CNNs and LSTMs for ESC, the demonstration of resilience in noisy and dynamic environments, and the scalability of the approach for large-scale wildlife monitoring. By automating the categorisation of environmental sounds, this work supports the development of advanced conservation tools, aiding in the preservation of biodiversity and enhancing our understanding of animal behaviours in their natural habitats. The results demonstrate how hybrid deep learning models have the ability to completely transform ecological monitoring systems.

Keywords: Convolutional Neural Network (CNN), Long Short-Term Memory (LSTM), Mel-frequency cepstral coefficients (MFCC), Recurrent Neural Networks (RNN), Random Forests and Support Vector Machines (SVM)

I. INTRODUCTION

In ecology and environmental research, categorising wildlife noises has been essential for providing important insights on animal behaviour, biodiversity, and the general health of ecosystems. The field of bioacoustics research has changed dramatically over the years, moving from manual sound identification to sophisticated machine learning models capable of processing massive audio recording datasets. The need to categorize and analyse ambient wildlife noises has become more pressing as human activity continues to expand into natural habitats, leading to habitat destruction, species displacement, and shifts in ecological balances. By studying and classifying these sounds, researchers can monitor wildlife populations, understand complex interspecies interactions, and identify regions of ecological importance. Furthermore, wildlife sound classification serves as an invaluable tool for id-

icators of ecosystem health, such as changes in richness or the presence of invasive species.

The development of modern sound classification systems is rooted in the urgent need for non-invasive, scalable, efficient monitoring techniques. Traditional methods such as physical field surveys and direct observation often require substantial human labour and inadvertently disturb wildlife. In contrast, automatic sound classification systems allow researchers to record, analyse, and interpret wildlife sounds without physical intrusion, making them ideal for long-term ecological monitoring. By leveraging advancements in artificial intelligence, such as deep learning and neural networks, contemporary systems can now differentiate between a wide range of acoustic signals, even in complex environments with overlapping noises. In addition to increasing the precision of sound classification, modern technologies make it possible to monitor biodiversity in real time, which is essential for conservation initiatives.

Therefore, environmental sound categorisation is more than simply a technical undertaking; it is an essential tactic in tackling global issues like habitat degradation, species extinction, and climate change. By bridging technology and ecology, modern sound classification systems empower researchers, policymakers, and conservationists to take data-driven actions that can mitigate the impacts of environmental changes and ensure the preservation of natural ecosystems.

Conventional sound categorisation techniques frequently depend on manual analysis, which is laborious and prone to human mistake. These approaches often include the use of spectrograms and other visual representations of sound, requiring professional interpretation. Furthermore, the richness and unpredictability of ambient sounds—such as overlapping background noise, overlapping call changes in sound intensity—may be too much for conventional methods to handle. These difficulties demand for the creation of more complex methods that can reliably and automatically categorise ambient sounds. By making automatic, highly accurate sound categorisation possible, machine learning advancements—especially in deep learning models like Convolutional Neural Networks (CNN) and Long Short-Term Memory (LSTM) networks—offer encouraging answers to these problems. [2]

The goal of this research is to use a hybrid CNN-LSTM model to create a reliable ambient sound categorisation system for wildlife monitoring. By using the advantages of both CNNs and LSTMs, the goal is to improve the precision and effectiveness of sound categorisation. While LSTMs are good at identifying temporal connections in sequential data, CNNs are effective at identifying spatial features in sound spectrograms. By combining these models, the project seeks to address



Security and Surveillance Bot

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Abstract— Advanced security is bridging the gap by developing intelligent security bots using automation technology, machine learning, and even image processing. This paper presents a security bot to detect and identify human presence based on the YOLO (You Only Look Once) algorithm, developed in conjunction with Python for real-time image processing and automation tasks. YOLO, a state-of-the-art object detection algorithm, enables the bot to efficiently recognize human figures in dynamic environments through video feed analysis. The bot autonomously processes images captured by surveillance cameras, applying YOLO for human detection and classification. With the robust libraries of Python being used for manipulating images through OpenCV and for handling tasks, the security bot identifies threats while automatically taking up the preconfigured actions like notifying security personnel or emergency responses. The system can be said to ensure high accuracy and speed for the detection and response of a security breach; thus, this is one of the essential tools in modern security automation. Furthermore, the bot's adaptability to various environments and its ability to process large volumes of visual data in real-time make it an innovative solution for enhancing security measures across multiple sectors, including public safety, smart homes, and industrial facilities.

Keywords: Security Bot, You Only Look Once (YOLO), Face Detection, Image Processing, Object Detection.

I. INTRODUCTION

Due to the wide array of automations, it has been noted that the security bot becomes intelligent and smart with automatic features. Strong security today at restricted locations necessitates the employment of smart automation systems and gadgets for managing things efficiently. A number of smart automated as well as semi-automated systems have developed as the demand required.

This is an intelligent security bot that comes with all-round protection. This is made possible by the installation of advanced sensors, AI threat identification, and seamless networking to provide real-time alerts and constant surveillance round-the-clock. Details are captured clearly by high-definition cameras with wide-angle lens, night vision and advanced motion detection, as well as face recognition for immediate threat identification. There is remote two-way audio.

The system completes the security ecosystem by integrating smart home systems, encrypting the data and securing it in safe storage, with the Bot continually learning and becoming more effective in time. Customizable settings tailor its performance to specific needs, and long-lasting batteries and weatherproofing ensure reliable operation, deterring crime

peace of mind. All details are covered by HD cam with night vision and a wide-angle view, and advanced motion detection and facial recognition technology to rapidly identify any possible threats.

This is a real-time object detection script on streams, be it from webcam or video files, in the construction of the security bot using OpenCV and YOLO. After loading a pre-trained YOLO model, the bot preprocesses every frame, running the model for object detection, using non-maximum suppression to remove duplicate detections, and then drawing bounding boxes and labels around detected objects, the results appear in a window. The script has a quit condition that can be used to exit the video loop and you can modify the confidence threshold. The heart of what a security bot does is machine learning or the ability to identify threats while limiting false alarms.

Machine learning models can be trained on large datasets of surveillance video and incident reports to recognize people, spot suspicious activity, and spot patterns that could indicate danger. By doing so, the bot can potentially anticipate threats in advance, distinguishing between harmless events and actual security incidents and evolve with time as threats change, making the security system more intelligent and reliable. The primary goal of a security bot to quickly and accurately identify potential threats is central to its effectiveness in threat detection. That means monitoring an array of data sources, including traffic in the network, sensor readings, and video feeds, to identify anomalies and suspicious patterns. Here, machine learning algorithms are reliable because they can be trained to identify tiny signals or threats that human observers might miss, enabling the bot to proactively alert security personnel of dangers. Computer vision is the capability that enables a security bot to "see" and understand its environment, just like a human does. Computer vision algorithms are capable of recognizing objects, facial recognition, and analyzing situations in order to make sense of a scenario by processing images and videos from cameras. This feature gives the bot critical visual intelligence to facilitate effective security monitoring and is important for tasks such as observing suspicious activity, keeping track of restricted areas, and spotting intruders. Automation must be implemented to strengthen the potency and effectiveness of a security bot. This way, the bot leaves the human operators to focus on more complicated problems while performing repetitive duties like issuing a warning, watching video feeds, or triggering reactions. Automation assures prompt and decisive actions on security breaches; in addition, such a bot can manage to react swiftly to risks detected by it, for example, locking doors automatically, shutting off alarms automatically, or alerting police authorities automatically.



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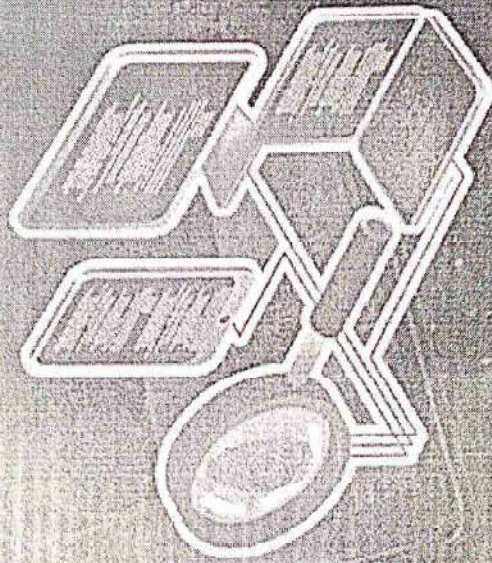
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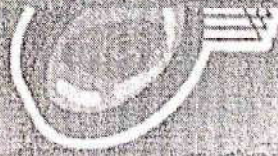
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Quantum Computing



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Mrs. Subhasini Shukla, Assistant Professor in the Department of Electronics and Computer Science at St. John College of Engineering and Management, Palghar, Maharashtra, has been contributing to teaching and research since 2013. With over 11 years of academic experience, she specializes in Quantum Computing with a keen interest in information quantum algorithms and applications, Basic Electronics & Electrical Engineering, Wireless Communication, Embedded Systems, AI, and Automation. She has published a number of research papers, presented at international conferences, and contributed to research with a gold medal. Known for her collaborative work, she has mentored students, led innovation projects, conducted workshops, and participated in high-level research. Her commitment to education and technology is reflected in her research and publications.



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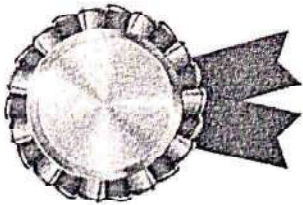
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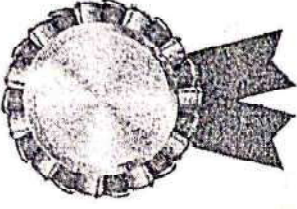
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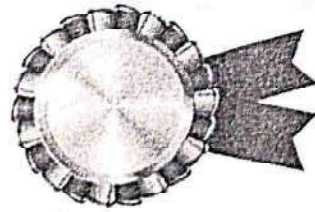


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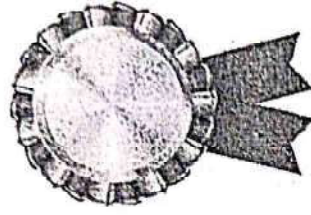
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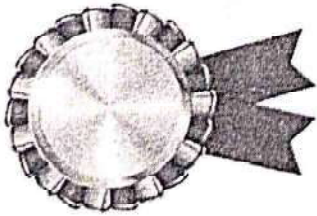


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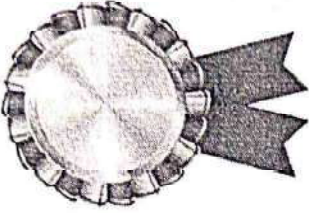
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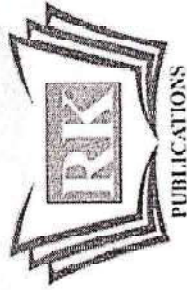


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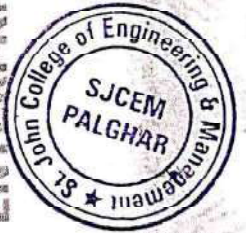
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Mrs. Subhasini Shukla, Associate Professor in the Department of Electronics and Computer Science at St. John College of Engineering and Management, Palghar, Maharashtra, has been dedicated to teaching and research since 2013. With over 17 years of academic experience, she specializes in Basic Electrical & Electronics Engineering, Wireless Communication, Embedded Systems, IoT, and Automation. She has published extensively in various journals presented at international conferences and contributed to research with a published patent. Known for her contributions to academic development, she has guided innovative projects, conducted workshops, and participated in high-impact research. Her commitment to education and technology underscores her professional journey.



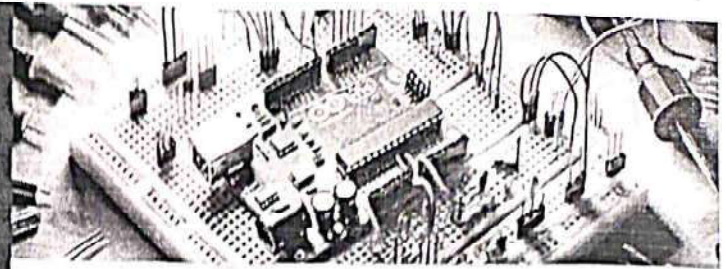
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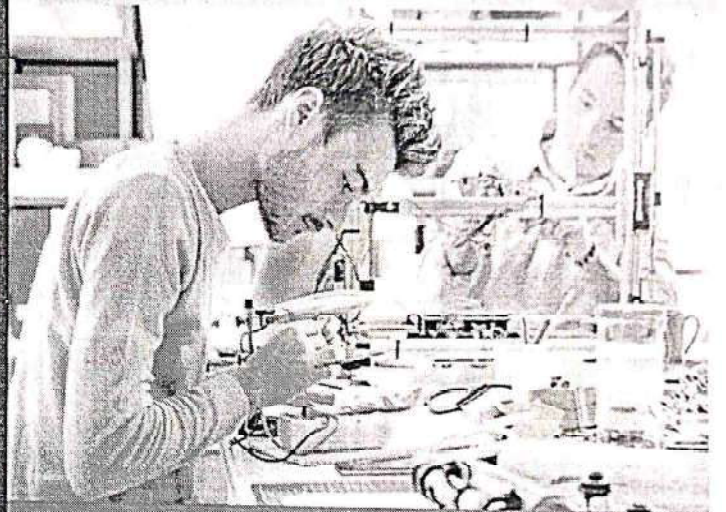


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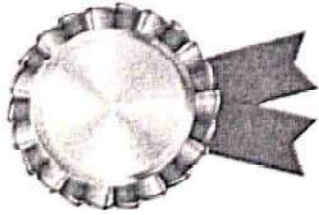


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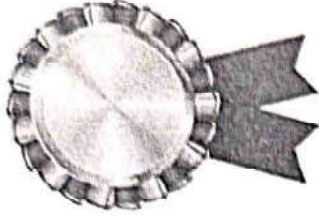
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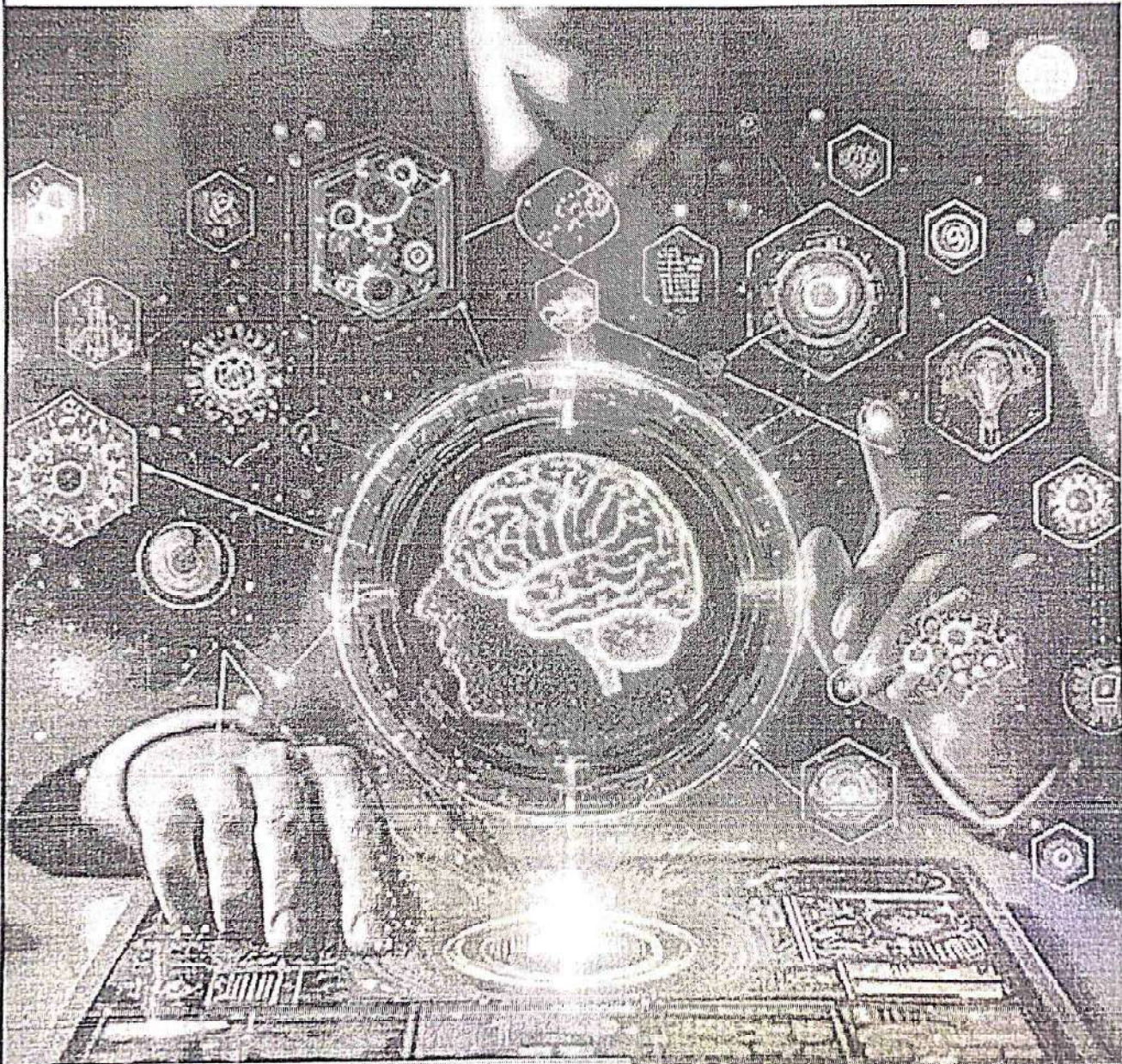
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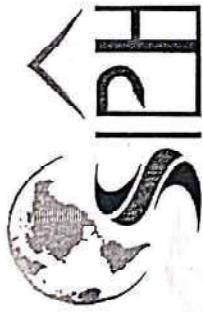
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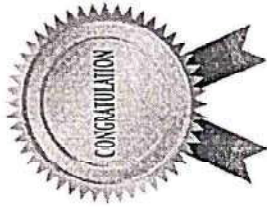
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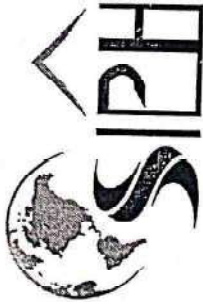
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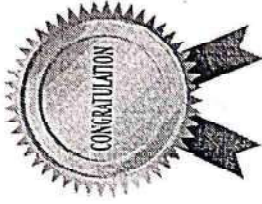
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