

International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.67

Volume 5, Issue 4, October 2025

AI-Powered Resume Evaluation System

Gayatri Hendre¹, Sakshi Bhiware², Alisha Darwajkar³, Prof. A.S. Mali⁴

^{1,2,3}UG Students, Department of Electronics and Telecommunication Engineering
 ⁴Assistant Professor, Department of Electronics and Telecommunication Engineering SKN Sinhgad College of Engineering, Pandharpur gayatrihendre2174@gmail.com, sakshibhiware@gmail.com alishadaewajkar2004@gmail.com, amruta.mali@sknscoe.ac.in

Abstract: The contemporary job market is highly competitive, with Applicant Tracking Systems (ATS) functioning as the main tool for evaluating resumes.

Although these systems are efficient, they often depend on strict keyword matching, which may not fully capture the meaning behind a candidate's experience. This paper introduces an intelligent framework intended to overcome this limitation by using the advanced natural language processing and generation abilities of Large Language Models (LLMs). Our system goes beyond basic resume parsing by extracting essential information from PDF resumes and offering a range of career improvement tools. These include a detailed ATS compatibility score with specific recommendations, recognition of skills that are currently popular and relevant to a candidate's background and desired positions, and tailored suggestions for professional certifications. By making use of the Mistral-7B-Instruct-v0.2 model through the Hugging Face Inference API, our framework offers a practical, easy-to-use, and effective method to support job seekers with insights that are backed by data, helping them make informed decisions about their careers.

Keywords: Large Language Models (LLMs), Mistral-7B, Resume Parsing, Applicant Tracking System (ATS), Prompt Engineering, Hugging Face API, Career Enhancement, Natural Language Understanding (NLU)

I. INTRODUCTION

The recruitment process has been significantly transformed by technology, with Applicant Tracking Systems (ATS) playing a central role. These systems automate the first stage of resume screening, which significantly reduces the time recruiters spend on initial evaluations. However, the algorithms used by these systems often rely on keyword-based searches, which can unintentionally reject qualified candidates whose resumes are not precisely aligned with the specific, pre-set terms used by employers. This poses a considerable challenge for job seekers, who must carefully customize their resumes for each application, frequently without clear direction. In addition, career development is an ongoing process. The skills required for certain roles are constantly changing due to technological progress. Job seekers need more than just a resume that is well-structured; they need guidance on how to stay competitive. This includes understanding the skills they currently lack, identifying new skills that are growing in demand within their industry, and obtaining certifications that can support their professional credibility. To tackle these issues, we suggest a comprehensive system that is powered by LLMs and extends beyond simple data extraction. Our framework is designed with four main goals. Intelligent Data Extraction: To correctly parse resumes in PDF format and extract structured data such as personal details, skills, and professional summaries. Advanced ATS Analysis: To deliver a thorough compatibility score through a comparison of a resume with a job description, giving in-depth feedback on keyword usage, experience relevance, and formatting. Proactive Skill Recommendation: To recognize and suggest emerging, high- demand skills based on the candidates current skill set and career goals. Personalized Certification Guidance: To recommend widely recognized certifications that can fill skill gaps and strengthen a candidateâs professional standing. This paper outlines the structure, methods, and implementation of our framework, demonstrating how modern LLMs can be applied to create a powerful tool for career guidance.

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

ISO 9001:2015

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

II. LITERATURE REVIEW

- [1] Jha,R.(2025): Designed an Alpowered resume builder that assists job seekers in organizing their resumes and emphasizing relevant skills. The system uses natural language processing to examine job descriptions and recommend the best places to include key terms in resumes. By matching resumes withApplicantTrackingSystems(ATS),the tool enhances the visibility of candidates and increases the chances ofbeing shortlisted. The study also noted thatAI helps reduce human errors in resume formatting and improves the overall quality of applications. This tool illustrates howAIcan connect the experiences of job seekers withthe needs of organizatio
- [2] Abhishek,K.L.(2025): Developed an intelligent resume screening tool that offers recomme ndations. The tool uses machine learning algorithms to assess resumes based on relevant skills
- , work experienceand academic qualifications. Job seekers receive specific feedback, such as suggestions for skill improvement and ways to optimize keywords for better ATS rankings. The study found automating the resume screening process lowers recruiter bias and ensures a more consistevaluation. It also showed thatAIbased advice can help candidates prepare better, resulting in a more efficient recruitment process.
- [3] Bevara,R.V.K.(2025): Introduced Resume2Vec,a framework that converts resumes into int elligent embeddings for semantic matching between candidates and job openings. Unlike tradi tional systems that rely on keywords, Resume2Vec captures the contextual and semantic connections between candidate skills and job requirements. These embeddings are processed using deep learning, allowing for accurate similarity scores between resumes and job descriptions. The results demonstrated significant improvements in candidate job alignment and faster short listing. This approach highlights AI's ability to understand candidate profiles a more compreh ensive way rather than just matching keywords.
- [4] Deshmukh,A.(2025):AppliedBERTbased NLP models for automated resume screening and candidate ranking. The process involved finetuning transformer models to understand the meaning of skills, experience, and qualifications. The system ranks candidates based on their semantic relevance to job descriptions rather than just keyword matches. The experimental results indicated higher accuracy in candidate ranking and less time spent on manual evaluations. This research shows the growing importance of transformer based models in interpreting complex textual data during recruitment.
- [5] Giri,A.(2025):ExploredAlpowered student assessment systems, focusing on adaptive evalu ation and personalized feedback. The study showed howAlcan assess individual performance, find learning gaps, and offer actionable recommendations. While centered on educational asse ssments, the methodology is applicable to recruitment, where Alcan predict candidate potential and fit. The research also highlighted how adaptive AI evaluation increases efficiency and fair rness in large-scale assessments. It opens the possibility of using AI
- [6] Mujtaba,D.F.(2024): Examined fairness Aldriven recruitment, addressing bias in algorithm s, training data, and evaluation metrics. The study reviewed methods for measuring and reduci ng bias, including fairnessaware learning techniques. It also stressed the need for ethical depl oyment frameworks to ensure AI recommendations are fair forall candidates. The authors not ed that even advanced AI systems can reinforce unequal treatment not carefully managed. This research offers guidelines for organizations to use AI responsibly in hiring.
- [7] Koshti,H.(2024): Created an Alpowered interview preparation system that combines resum e analysis, HR simulations, and technical skill assessments. The system uses natural language processing and machine learning to evaluate resumes, generate interview questions, and assess technical abilities. The findings showed improved readiness and confidence among candidates, while recruiters benefited from more structured evaluations. The study emphasized the integration of multiple AI features into ne platform, showing how integrated approaches can improve recruitment efficiency.
- [8] Sarveshwaran,R.(2024): Focused onNLP-based AI-driven resume screening, which extracts structured insights from unstructured resume data. The methodology involved parsing resumes, identifying key skill and experience patterns, and ranking candidates based on their semantic matching with job requirements. The research showed increased efficiency and accuracy in shortlisting compared to manual screening.









International Journal of Advanced Research in Science, Communication and Technology

ISO 9001:2015

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

- [9] Ashrafi,S.(2023): education systems that recommend career paths in fastchanging job mar kets. Using AI algorithms, the system identifies skill gaps, suggests learning opportunities, and guides candidates toward suitable roles. The research emphasizes that AI can support both recr uitment and ongoing career development. Findings showed increased employability and adapt ability for candidates using the system. This study shows AI's role not just in selecting candid ates but also in lifelong learning and skill improvement.
- [10] Albassam,W.A.(2023): Conducted an analytical review of AI recruitment strategies, looking at current practices, benefits, and challenges. The review showed the efficiency gains of AI in screening and ranking candidates, while also pointing out ethical issues like bias and transpa rency. The study suggested ways for organizations to balance automation with human oversight. It provides a full understanding of AI's potential and limitations in recruitment
- [11] Hunkenschroer,A.L.(2022): Conducted a comprehensive review on the ethics of. Alenable d recruiting and selection, identifying risks such as algorithmic bias, lack of transparency, and accountability issues. The study stressed the need for frameworks that ensure fairness, interpretability, and compliance with ethical standards. It also proposed future research directions for developing responsible AI recruitment systems. This work sets the foundation for understanding the social and ethical implications of AI in talent acquisition.

III. PROPOSED METHODOLOGY

The framework is designed as a modular, multi-stage process that systematically converts unstructured resume content into structured, useful information. This approach emphasizes reliability, reproducibility, and accuracy, using advanced text processing and strategies for interacting with AI. It ensures that the data is clear and can be validated in a structured way. The whole process can be broken down as follows:

PDF Input → Stage 1: Text Extraction & Normalization → Clean Text Corpus → Stage 2: Task-Specific Prompt Formulation → Formatted Prompt → Stage 3: LLM Inference → Raw Response → Stage 4: Hierarchical Output Parsing → Structured Data Output → Stage 5: Insight Generation and Analysis

3.1. Stage 1: Data Preprocessing and Text Extraction

Dealing with resumes in PDF format is challenging because of how they are structured, often with inconsistent formatting and layout. This stage focuses on converting these documents into a readable text form while keeping the meaning intact. Document Parsing: Resumes are taken in, and all text is extracted. This process ensures that headers, bullet points, tables, and other formatting elements are recognized and ordered properly, so the information flows in a way that makes sense to a human reader. This setup is essential for the AI to understand the resume correctly. Text Normalization: The raw text might have extra spaces, line breaks, or other issues that make it hard for machines to process. So, a comprehensive normalization process is used to fix these issues, making the text uniform and easier to work with. The result is a clean text corpus that's ready for further AI processing, improving the chances of accurate results. Data Integrity Checks: The system checks if parts of the resume are missing or if there are any irregularities in the extracted content. It flags any incomplete resumes so that the analysis is only done on well-structured data. This step helps ensure the reliability of the final insights.

3.2. Stage 2: Core AI Interaction and Prompt Engineering

At the center of the framework is the AI-powered analysis stage where the unstructured resume text is transformed into clear, meaningful data. Model Selection: The framework uses an advanced instruction-tuned transformer model. This model is effective at understanding detailed instructions, reasoning with complex data, and generating results that follow strict formats. It balances strong performance with efficient computing, making it suitable for large- scale use through APIs. Prompt Engineering: For the AI to provide reliable results, it's important to design prompts clearly. This includes: Task Definition: The prompts tell the model exactly what it needs to do, like assessing how well a candidate fits a job, pulling out technical skills, or measuring how well a resume matches an ATS (Applicant Tracking System). Giving the model a professional persona helps it better understand and apply domain-specific knowledge. Output Schema Specification: The prompts also include examples of what the desired output should look

Copyright to IJARSCT www.ijarsct.co.in





International Journal of Advanced Research in Science, Communication and Technology

y SOUTH OF THE COURT

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

like, such as structured tables or detailed data schemas. This guides the model to generate output that's both easy for machines to read and logically correct.

3.3. Stage 3: Hierarchical Output Parsing and Error Handling

AI-generated responses can at times be inconsistent, include unnecessary text, or not follow the required format.A hierarchical parsing strategy is used to increase the reliability of structured data extraction:

Primary Parsing: The system first tries to interpret the AI response according to the defined format. If the output is clear and well-structured, it is directly converted into a useful format for further analysis.

Secondary Fallbacks: If primary parsing doesn't work, other methods are used to analyze the text, such as looking for patterns, nested structures, or recognizable data markers. This ensures that small formatting issues don't stop the system from delivering results.

Error Management and Logging: When parsing isn't possible, the raw output is saved and logged for review. This helps in continuously refining the prompts, schema definitions, and parsing strategies, maintaining system stability while supporting improvements to the model.

3.4. Stage 4: Insight Generation and Data Structuring

Once the data is structured, the framework moves on to creating useful insights:

Skill and Competency Mapping: The extracted data is analyzed to identify technical skills, soft skills, certifications, and levels of experience. This allows for an automated assessment of a candidate's strengths and areas where they may need growth.

ATS Compatibility Scoring: Resumes are evaluated against job descriptions to determine how well they match. This provides a compatibility score that highlights both matches and gaps in the candidate's qualifications. Trend Analysis: When looking at multiple resumes, the system can identify trends such as commonly held skills, newly emerging abilities, or areas where candidates tend to fall short.

3.5. Stage 5: System Robustness and Scalability Considerations

The system is designed to handle diverse data sets with stability and scalability:

Modular Architecture: Each part of the process works independently, which means that any part can be adjusted, replaced, or enhanced without affecting the rest of the system.

Scalability: The system is built to process many resumes at once, using parallel AI interactions and efficient handling of data. This makes it suitable for large-scale applications.

Quality Assurance: Automated checks are in place to catch issues such as incomplete data or inconsistencies, ensuring high-quality results even when processing large volumes.

Extensibility: The pipeline can be expanded to support different languages, more detailed skill categories, or integration with HR systems without needing a complete redesign of the framework. This multi-stage approach ensures that unstructured resumes are turned into structured, actionable insights.

By combining advanced text processing, thoughtful AI interaction, and strong error-handling mechanisms, the framework offers a reliable solution for career guidance, recruitment analytics assessment.









International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025



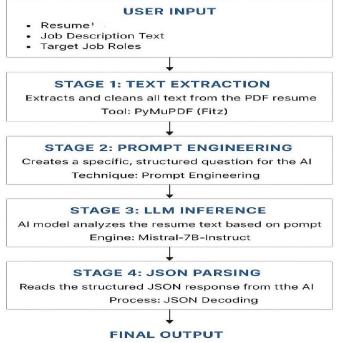
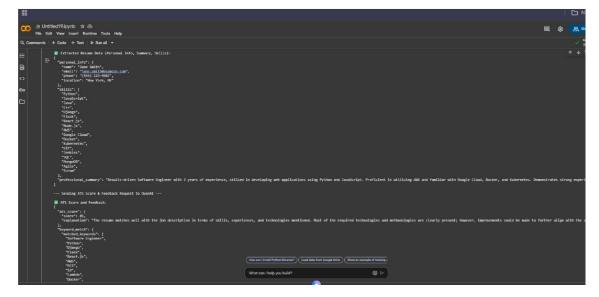


Fig: AI-Powered Resume Evaluation System

Output:

The final output synthesizes data from resume extraction and job description analysis to generate a personalized career development roadmap, providing the user with actionable recommendations for skill acquisition and certification





2581-9429



International Journal of Advanced Research in Science, Communication and Technology

ISO 9001:2015

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67



IV. CONCLUSION

The findings from our case study demonstrate that the system is capable of providing accurate, context-aware, and useful advice in various aspects of career development, including improving resumes for automated screening systems and planning skills for the long term. By moving beyond basic keyword-based methods, the framework shows how large language models can understand complex professional backgrounds and offer tailored suggestions that match an individual's strengths, career goals, and industry needs. This not only helps candidates present themselves more effectively to employers but also encourages thoughtful consideration of skill development and career growth.

Despite some limitations, such as reliance on the foundational language models, potential for bias in training data, and the difficulty of keeping information current, the framework acts as a strong demonstration of AI-based career support systems.

Importantly, even smaller and more affordable models like Mistral-7B-Instruct-v0.2 have proven that complex tasks, such as resume analysis, identifying skill gaps, and offering practical career advice, can be handled efficiently when paired with well-crafted prompts and organized output processing. This presents opportunities for affordable, widely applicable AI tools that are accessible to a broader audience, including those in less-resourced settings.

Looking ahead, there is considerable potential for improving this framework.

Future work could involve fine-tuning the system for specific fields to increase accuracy, integrating up-to-date labor market data to offer timely advice, and improving the user interface to make the system more user-friendly and engaging. Beyond technical enhancements, adding features like mentorship connections, career path forecasting, and customized learning resource recommendations could transform the framework into a full-fledged career development platform.

In the end, this project illustrates the powerful role AI can play in making career support more accessible to everyone. By offering individuals personalized, evidence-based guidance, these systems can decrease inequalities in professional support, support better decision-making, and encourage continuous learning. In a quickly changing and increasingly automated job market, intelligent systems like this one can help create a fairer and more competitive environment, allowing people to confidently and strategically manage their career paths.

REFERENCES

1. Jha, R., Paliwal, G., & Jha, B. K. (2025). AI-Powered Resume Builder: Enhancing Job Applications with Artificial Intelligence. 3rd International Conference on Disruptive Technologies (ICDT), IEEE.

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

- 2. Abhishek, K. L., Niranjanamurthy, M., Aric, S., Ansarullah, S. I., Sinha, A., Tejani, G., & Shah, M. A. (2025). Developing an Intelligent Resume Screening Tool With AI Driven Analysis and Recommendation Features. Applied AI Letters, 6(2), e116.
- 3. Bevara, R. V. K., Mannuru, N. R., Karedla, S. P., Lund, B., Xiao, T., Pasem, H., & Rupeshkumar, S. (2025). Resume2Vec: Transforming Applicant Tracking Systems with Intelligent Resume Embeddings for Precise Candidate Matching. Electronics, 14(4), 794.
- 4. Giri, A. (2025). Revolutionizing Student Evaluation: The Power of AI-Powered Assessment. In Improving Student Assessment with Emerging AI Tools (pp. 333–362). IGI Global.
- 5. Deshmukh, A., & Raut, A. (2025). Applying BERT-Based NLP for Automated Resume Screening and Candidate Ranking. Annals of Data Science, 12(2), 591–603.
- 6. Mujtaba, D. F., & Mahapatra, N. R. (2024). Fairness in AI-Driven Recruitment: Challenges, Metrics, Methods, and Future Directions. arXiv preprint arXiv:2405.19699.
- 7. Koshti, H., Gosavi, P., Pagar, R., Khairnar, P., & Talekar, S. (2024). AI-Powered Interview Preparation System: Integrating Resume Analysis, HR Simulation, and Technical Skill Assessment. HR Simulation and Technical Skill Assessment
- 8. Sarveshwaran, R., Karthikeyan, S., Cruz, M. V., Shreyanth, S., Niveditha, S., & Rajesh, P. K. (2024, August). NLP-Based AI-Driven Resume Screening. In Proceedings of Ninth International Congress on Information and Communication Technology (ICICT 2024) (Vol. 1012, p. 359). Springer Nature.
- 9. Ashrafi, S., Majidi, B., Akhtarkavan, E., & Hajiagha, S. H. R. (2023). Efficient Resume-Based Re-Education for Career Recommendation in Rapidly Evolving Job Markets. IEEE Access, 11, 124350–124367.
- 10. Albassam, W. A. (2023). The Power of Artificial Intelligence in Recruitment: An Analytical Review of Current Al-Based Recruitment Strategies. International Journal of Professional Business Review, 8(6), 4.
- 11. Hunkenschroer, A. L., & Luetge, C. (2022). Ethics of AI-Enabled Recruiting and Selection: A Review and Research Agenda. Journal of Business Ethics, 178(4), 977–1007.
- 12. Kumar, A. P. (2025). 48 Intelligent placement and career development platform. Synergies in Smart and Virtual Systems Using Computational Intelligence, 275.
- 13. Rani, K., Nagarajan, S. K. S., Gupta, K., Kohli, R., & Kumar, S. (2025, April). AI Techniques in Leveraging Resume Screening System. In 2025 3rd International Conference on Advancement in Computation & Computer Technologies (InCACCT) (pp. 628-632). IEEE.
- 14. Rahman, S. M., Hossain, M. A., Miah, M. S., Alom, M. M., & Islam, M. (2025). Artificial Intelligence (AI) in revolutionizing sustainable recruitment: A framework for inclusivity and efficiency. International Research Journal of Multidisciplinary Scope, 6(1), 1128-1141.
- 15. Doğan, S., & Niyet, İ. Z. (2024). Artificial intelligence (AI) in tourism. In Future Tourism Trends Volume 2: Technology Advancement, Trends and Innovations for the Future in Tourism (pp. 3-21). Emerald Publishing Limited.
- 16. Shang, Z., Chauhan, V., Devi, K., & Patil, S. (2024). Artificial intelligence, the digital surgeon: unravelling its emerging footprint in healthcare—the narrative review. Journal of Multidisciplinary Healthcare, 4011-4022.
- 17. Kariyanna, B., & Sowjanya, M. (2024). Unravelling the use of artificial intelligence in management of insect pests. Smart Agricultural Technology, 8, 100517.
- 18. Chourasia, S., Dhama, A., & Bhardwaj, G. (2024, May). AI-driven organizational culture evolution: A critical review. In 2024 International Conference on Communication, Computer Sciences and Engineering (IC3SE) (pp. 1839-1844). IEEE.
- 19. Gerlich, M. (2025). AI Tools in Society: Impacts on Cognitive Offloading and the Future of Critical Thinking. Societies 2025, 15, 6. evaluation.
- 4 Godase, M. V., Mulani, A., Ghodak, M. R., Birajadar, M. G., Takale, M. S., & Kolte, M. A MapReduce and Kalman Filter based Secure IIoT Environment in Hadoop. Sanshodhak, Volume 19, June 2024.
- 5 Mulani, A. O., & Mane, P. B. (2017). Watermarking and cryptography based image authentication on reconfigurable platform. Bulletin of Electrical Engineering and Informatics, 6(2), 181-187.

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.67

ISSN: 2581-9429

Volume 5, Issue 4, October 2025

- 6 Gadade, B., Mulani, A. O., & Harale, A. D. IoT Based Smart School Bus and Student Tracking System. Sanshodhak, Volume 19, June 2024.
- 7 Dhanawadel, A., Mulani, A. O., & Pise, A. C. IOT based Smart farming using Agri BOT. Sanshodhak, Volume 20, June 2024.
- 8 Mulani, A., & Mane, P. B. (2016). DWT based robust invisible watermarking. Scholars' Press.
- 9 R. G. Ghodke, G. B. Birajdar, A.O. Mulani, G.N. Shinde, R.B. Pawar, Design and Development of an Efficient and Cost-Effective surveillance Quadcopter using Arduino, Sanshodhak, Volume 20, June 2024.
- 10 R. G. Ghodke, G. B. Birajdar, A.O. Mulani, G.N. Shinde, R.B. Pawar, Design and Development of Wireless Controlled ROBOT using Bluetooth Technology, Sanshodhak, Volume 20, June 2024.
- 11 Swami, S. S., & Mulani, A. O. (2017, August). An efficient FPGA implementation of discrete wavelet transform for image compression. In 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS) (pp. 3385-3389). IEEE.
- 12 Mane, P. B., & Mulani, A. O. (2018). High speed area efficient FPGA implementation of AES algorithm. International Journal of Reconfigurable and Embedded Systems, 7(3), 157-165.
- 13 Mulani, A. O., & Mane, P. B. (2016). Area efficient high speed FPGA based invisible watermarking for image authentication. Indian journal of Science and Technology, 9(39), 1-6.
- 14 Kashid, M. M., Karande, K. J., & Mulani, A. O. (2022, November). IoT-based environmental parameter monitoring using machine learning approach. In Proceedings of the International Conference on Cognitive and Intelligent Computing: ICCIC 2021, Volume 1 (pp. 43-51). Singapore: Springer Nature Singapore.
- 15 Nagane, U. P., & Mulani, A. O. (2021). Moving object detection and tracking using Matlab. Journal of Science and Technology, 6(1), 2456-5660.
- 16 Kulkarni, P. R., Mulani, A. O., & Mane, P. B. (2016). Robust invisible watermarking for image authentication. In Emerging Trends in Electrical, Communications and Information Technologies: Proceedings of ICECIT-2015 (pp. 193-200). Singapore: Springer Singapore.
- 17 Ghodake, M. R. G., & Mulani, M. A. (2016). Sensor based automatic drip irrigation system. Journal for Research, 2(02).
- 18 Mandwale, A. J., & Mulani, A. O. (2015, January). Different Approaches For Implementation of Viterbi decoder on reconfigurable platform. In 2015 International Conference on Pervasive Computing (ICPC) (pp. 1-4). IEEE.
- 19 Jadhav, M. M., Chavan, G. H., & Mulani, A. O. (2021). Machine learning based autonomous fire combat turret. Turkish Journal of Computer and Mathematics Education, 12(2), 2372-2381.
- 20 Shinde, G., & Mulani, A. (2019). A robust digital image watermarking using DWT-PCA. International Journal of Innovations in Engineering Research and Technology, 6(4), 1-7.
- 21 Mane, D. P., & Mulani, A. O. (2019). High throughput and area efficient FPGA implementation of AES algorithm. International Journal of Engineering and Advanced Technology, 8(4).
- 22 Mulani, A. O., & Mane, D. P. (2017). An Efficient implementation of DWT for image compression on reconfigurable platform. International Journal of Control Theory and Applications, 10(15), 1-7.
- 23 Deshpande, H. S., Karande, K. J., & Mulani, A. O. (2015, April). Area optimized implementation of AES algorithm on FPGA. In 2015 International Conference on Communications and Signal Processing (ICCSP) (pp. 0010-0014). IEEE.
- 24 Deshpande, H. S., Karande, K. J., & Mulani, A. O. (2014, April). Efficient implementation of AES algorithm on FPGA. In 2014 International Conference on Communication and Signal Processing (pp. 1895-1899). IEEE.
- 25 Kulkarni, P., & Mulani, A. O. (2015). Robust invisible digital image mamarking using discrete wavelet transform. International Journal of Engineering Research & Technology (IJERT), 4(01), 139-141.
- 26 Mulani, A. O., Jadhav, M. M., & Seth, M. (2022). Painless Non invasive blood glucose concentration level estimation using PCA and machine learning. The CRC Book entitled Artificial Intelligence, Internet of Things (IoT) and Smart Materials for Energy Applications.

IJARSCT ::
.co.in ::
.iii





International Journal of Advanced Research in Science, Communication and Technology

esearch in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.67

ISSN: 2581-9429

Volume 5, Issue 4, October 2025

- 27 Mulani, A. O., & Shinde, G. N. (2021). An approach for robust digital image watermarking using DWT PCA. Journal of Science and Technology, 6(1).
- 28 Mulani, A. O., & Mane, P. B. (2014, October). Area optimization of cryptographic algorithm on less dense reconfigurable platform. In 2014 International Conference on Smart Structures and Systems (ICSSS) (pp. 86-89). IEEE.
- 29 Jadhav, H. M., Mulani, A., & Jadhav, M. M. (2022). Design and development of chatbot based on reinforcement learning. Machine Learning Algorithms for Signal and Image Processing, 219-229.
- 30 Mulani, A. O., & Mane, P. (2018). Secure and area efficient implementation of digital image watermarking on reconfigurable platform. International Journal of Innovative Technology and Exploring Engineering, 8(2), 56-61.
- 31 Kalyankar, P. A., Mulani, A. O., Thigale, S. P., Chavhan, P. G., & Jadhav, M. M. (2022). Scalable face image retrieval using AESC technique. Journal Of Algebraic Statistics, 13(3), 173-176.
- 32 Takale, S., & Mulani, A. (2022). DWT-PCA based video watermarking. Journal of Electronics, Computer Networking and Applied Mathematics (JECNAM) ISSN, 2799-1156.
- 33 Kamble, A., & Mulani, A. O. (2022). Google assistant based device control. Int. J. of Aquatic Science, 13(1), 550-555.
- 34 Kondekar, R. P., & Mulani, A. O. (2017). Raspberry Pi based voice operated Robot. International Journal of Recent Engineering Research and Development, 2(12), 69-76.
- 35 Ghodake, R. G., & Mulani, A. O. (2018). Microcontroller based automatic drip irrigation system. In Techno-Societal 2016: Proceedings of the International Conference on Advanced Technologies for Societal Applications (pp. 109-115). Springer International Publishing.
- 36 Mulani, A. O., Birajadar, G., Ivković, N., Salah, B., & Darlis, A. R. (2023). Deep learning based detection of dermatological diseases using convolutional neural networks and decision trees. Traitement du Signal, 40(6), 2819.
- 37 Boxey, A., Jadhav, A., Gade, P., Ghanti, P., & Mulani, A. O. (2022). Face Recognition using Raspberry Pi. Journal of Image Processing and Intelligent Remote Sensing (JIPIRS) ISSN, 2815-0953.
- 38 Patale, J. P., Jagadale, A. B., Mulani, A. O., & Pise, A. (2023). A Systematic survey on Estimation of Electrical Vehicle. Journal of Electronics, Computer Networking and Applied Mathematics (JECNAM) ISSN, 2799-1156.
- 39 Gadade, B., & Mulani, A. (2022). Automatic System for Car Health Monitoring. International Journal of Innovations in Engineering Research and Technology, 57-62.
- 40 Shinde, M. R. S., & Mulani, A. O. (2015). Analysis of Biomedical Image Using Wavelet Transform. International Journal of Innovations in Engineering Research and Technology, 2(7), 1-7.
- 41 Mandwale, A., & Mulani, A. O. (2014, December). Implementation of convolutional encoder & different approaches for viterbi decoder. In IEEE International Conference on Communications, Signal Processing Computing and Information technologies.
- 42 Mulani, A. O., Jadhav, M. M., & Seth, M. (2022). Painless machine learning approach to estimate blood glucose level with non-invasive devices. In Artificial intelligence, internet of things (IoT) and smart materials for energy applications (pp. 83-100). CRC Press.
- 43 Maske, Y., Jagadale, A. B., Mulani, A. O., & Pise, A. C. (2023). Development of BIOBOT system to assist COVID patient and caretakers. European Journal of Molecular & Clinical Medicine, 10(01), 2023.
- 44 Utpat, V. B., Karande, D. K., & Mulani, D. A. Grading of Pomegranate Using Quality Analysis || . International Journal for Research in Applied Science & Engineering Technology (IJRASET), 10.
- 45 Takale, S., & Mulani, D. A. (2022). Video Watermarking System. International Journal for Research in Applied Science & Engineering Technology (IJRASET), 10.
- 46 Mandwale, A., & Mulani, A. O. (2015, January). Different approaches for implementation of Viterbi decoder. In IEEE international conference on pervasive computing (ICPC).
- 47 Maske, Y., Jagadale, M. A., Mulani, A. O., & Pise, A. (2021). Implementation of BIOBOT System for COVID Patient and Caretakers Assistant Using IOT. International Journal of Information Technology and, 30-43.
- 48 Mulani, A. O., & Mane, D. P. (2016). Fast and Efficient VLSI Implementation of DWT for Image Compression. International Journal for Research in Applied Science & Engineering Technology, 5, 1397-1402.

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

ISSN: 2581-9429 Volume

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

- 49 Kambale, A. (2023). Home automation using google assistant. UGC care approved journal, 32(1), 1071-1077.
- 50 Pathan, A. N., Shejal, S. A., Salgar, S. A., Harale, A. D., & Mulani, A. O. (2022). Hand gesture controlled robotic system. Int. J. of Aquatic Science, 13(1), 487-493.
- 51 Korake, D. M., & Mulani, A. O. (2016). Design of Computer/Laptop Independent Data transfer system from one USB flash drive to another using ARM11 processor. International Journal of Science, Engineering and Technology Research.
- 52 Mandwale, A., & Mulani, A. O. (2016). Implementation of High Speed Viterbi Decoder using FPGA. International Journal of Engineering Research & Technology, IJERT.
- 53 Kolekar, S. D., Walekar, V. B., Patil, P. S., Mulani, A. O., & Harale, A. D. (2022). Password Based Door Lock System. Int. J. of Aquatic Science, 13(1), 494-501.
- 54 Shinde, R., & Mulani, A. O. (2015). Analysis of Biomedical Image || . International Journal on Recent & Innovative trend in technology (IJRITT).
- 55 Sawant, R. A., & Mulani, A. O. (2022). Automatic PCB Track Design Machine. International Journal of Innovative Science and Research Technology, 7(9).
- 56 ABHANGRAO, M. R., JADHAV, M. S., GHODKE, M. P., & MULANI, A. (2017). Design And Implementation Of 8-bit Vedic Multiplier. International Journal of Research Publications in Engineering and Technology (ISSN No: 2454-7875).
- 57 Gadade, B., Mulani, A. O., & Harale, A. D. (2024). Iot based smart school bus and student monitoring system. Naturalista Campano, 28(1), 730-737.
- 58 Mulani, D. A. O. (2024). A Comprehensive Survey on Semi-Automatic Solar-Powered Pesticide Sprayers for Farming. Journal of Energy Engineering and Thermodynamics (JEET) ISSN, 2815-0945.
- 59 Salunkhe, D. S. S., & Mulani, D. A. O. (2024). Solar Mount Design Using High-Density Polyethylene. NATURALISTA CAMPANO, 28(1).
- 60 Seth, M. (2022). Painless Machine learning approach to estimate blood glucose level of Non-Invasive device. Artificial Intelligence, Internet of Things (IoT) and Smart Materials for Energy Applications.
- 61 Kolhe, V. A., Pawar, S. Y., Gohery, S., Mulani, A. O., Sundari, M. S., Kiradoo, G., ... & Sunil, J. (2024). Computational and experimental analyses of pressure drop in curved tube structural sections of Coriolis mass flow metre for laminar flow region. Ships and Offshore Structures, 19(11), 1974-1983.
- 62 Basawaraj Birajadar, G., Osman Mulani, A., Ibrahim Khalaf, O., Farhah, N., G Gawande, P., Kinage, K., & Abdullah Hamad, A. (2024). Epilepsy identification using hybrid CoPrO-DCNN classifier. International Journal of Computing and Digital Systems, 16(1), 783-796.
- 63 Kedar, M. S., & Mulani, A. (2021). IoT Based Soil, Water and Air Quality Monitoring System for Pomegranate Farming. Journal of Electronics, Computer Networking and Applied Mathematics (JECNAM) ISSN, 2799-1156.
- 64 Godse, A. P. A.O. Mulani (2009). Embedded Systems (First Edition).
- 65 Pol, R. S., Bhalerao, M. V., & Mulani, A. O. A real time IoT based System Prediction and Monitoring of Landslides. International Journal of Food and Nutritional Sciences, Volume 11, Issue 7, 2022.
- 66 Mulani, A. O., Sardey, M. P., Kinage, K., Salunkhe, S. S., Fegade, T., & Fegade, P. G. (2025). ML-powered Internet of Medical Things (MLIOMT) structure for heart disease prediction. Journal of Pharmacology and Pharmacotherapeutics, 16(1), 38-45.
- 67 Aiwale, S., Kolte, M. T., Harpale, V., Bendre, V., Khurge, D., Bhandari, S., ... & Mulani, A. O. (2024). Non-invasive Anemia Detection and Prediagnosis. Journal of Pharmacology and Pharmacotherapeutics, 15(4), 408-416.
- 68 Mulani, A. O., Bang, A. V., Birajadar, G. B., Deshmukh, A. B., Jadhav, H. M., & Liyakat, K. K. S. (2024). IoT Based Air, Water, and Soil Monitoring System for Pomegranate Farming. Annals of Agri-Bio Research, 29(2), 71-86.
- 69 Kulkarni, T. M., & Mulani, A. O. (2024). Face Mask Detection on Real Time Images and Videos using Deep Learning. International Journal of Electrical Machine Analysis and Design (IJEMAD), 2(1).
- 70 Thigale, S. P., Jadhav, H. M., Mulani, A. O., Birajadar, G. B., Nagrale, M., & Sardey, M. P. (2024). Internet of things and robotics in transforming healthcare services. Afr J Biol Sci (S Afr), 6(6), 1567-1575.

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.67

Volume 5, Issue 4, October 2025

- 71 Pol, D. R. S. (2021). Cloud Based Memory Efficient Biometric Attendance System Using Face Recognition. Stochastic Modeling & Applications, 25(2).
- 72 Nagtilak, M. A. G., Ulegaddi, M. S. N., Adat, M. A. S., & Mulani, A. O. (2021). Breast Cancer Prediction using Machine Learning.
- 73 Rahul, G. G., & Mulani, A. O. (2016). Microcontroller Based Drip Irrigation System.
- 74 Kulkarni, T. M., & Mulani, A. O. Deep Learning Based Face-Mask Detection: An Approach to Reduce Pandemic Spreads in Human Healthcare. African Journal of Biological Sciences, 6(6), 2024.
- 75 Mulani, A., & Mane, P. B. (2016). DWT based robust invisible watermarking. Scholars' Press.
- 76 Dr. Vaishali Satish Jadhav, Dr. Shweta Sadanand Salunkhe, Dr. Geeta Salunkhe, Pranali Rajesh Yawle, Dr. Rahul S. Pol, Dr. Altaf Osman Mulani, Dr. Manish Rana, Iot Based Health Monitoring System for Human, Afr. J. Biomed. Res. Vol. 27 (September 2024).
- 77 Dr. Vaishali Satish Jadhav, Geeta D. Salunke, Kalyani Ramesh Chaudhari, Dr. Altaf Osman Mulani, Dr. Sampada Padmakar Thigale, Dr. Rahul S. Pol, Dr. Manish Rana, Deep Learning-Based Face Mask Recognition in Real-Time Photos and Videos, Afr. J. Biomed. Res. Vol. 27 (September 2024).
- 78 Altaf Osman Mulani, Electric Vehicle Parameters Estimation Using Web Portal, Recent Trends in Electronics & Communication Systems, Volume 10, Issue 3, 2023.
- 79 Aryan Ganesh Nagtilak, Sneha Nitin Ulegaddi, Mahesh Mane, Altaf O. Mulani, Automatic Solar Powered Pesticide Sprayer for Farming, International Journal of Microwave Engineering and Technology, Volume 9 No. 2, 2023.
- 80 Annasaheb S. Dandage, Vitthal R. Rupnar, Tejas A Pise, and A. O. Mulani, Real-Time Language Translation Application Using Tkinter. International Journal of Digital Communication and Analog Signals. 2025; 11(01): -p.
- 81 AnnaSaheb S Dandage, Vitthal R. Rupnar, Tejas A Pise, and A. O. Mulani, IoT-Powered Weather Monitoring and Irrigation Automation: Transforming Modern Farming Practices. . 2025; 11(01): -p.
- 82 Mulani, A.O., Kulkarni, T.M. (2025). Face Mask Detection System Using Deep Learning: A Comprehensive Survey. In: Singh, S., Arya, K.V., Rodriguez, C.R., Mulani, A.O. (eds) Emerging Trends in Artificial Intelligence, Data Science and Signal Processing. AIDSP 2023. Communications in Computer and Information Science, vol 2439. Springer, Cham. https://doi.org/10.1007/978-3-031-88759-8_3.
- 83 Karve, S., Gangonda, S., Birajadar, G., Godase, V., Ghodake, R., Mulani, A.O. (2025). Optimized Neural Network for Prediction of Neurological Disorders. In: Singh, S., Arya, K.V., Rodriguez, C.R., Mulani, A.O. (eds) Emerging Trends in Artificial Intelligence, Data Science and Signal Processing. AIDSP 2023. Communications in Computer and Information Science, vol 2440. Springer, Cham. https://doi.org/10.1007/978-3-031-88762-8_18.
- 84 Saurabh Singh, Karm Veer Arya, Ciro Rodriguez Rodriguez, and Altaf Osman Mulani, Emerging Trends in Artificial Intelligence, Data Science and Signal Processing, Communications in Computer and Information Science (CCIS), volume 2440.
- 85 Saurabh Singh, Karm Veer Arya, Ciro Rodriguez Rodriguez, and Altaf Osman Mulani, Emerging Trends in Artificial Intelligence, Data Science and Signal Processing, Communications in Computer and Information Science (CCIS), volume 2439.
- 86 Godase, V., Mulani, A., Pawar, A., & Sahani, K. (2025). A Comprehensive Review on PIR Sensor-Based Light Automation Systems. International Journal of Image Processing and Smart Sensors, 1(1), 22-29.
- 87 Godase, V., Mulani, A., Takale, S., & Ghodake, R. (2025). Comprehensive Review on Automated Field Irrigation using Soil Image Analysis and IoT. Journal of Advance Electrical Engineering and Devices, 3(1), 46-55.
- 88 Altaf Osman Mulani, Deshmukh M., Jadhav V., Chaudhari K., Mathew A.A., Shweta Salunkhe. Transforming Drug Therapy with Deep Learning: The Future of Personalized Medicine. Drug Research. 2025 Aug 29.
- 89 Altaf O. Mulani, Vaibhav V. Godase, Swapnil R. Takale, Rahul G. Ghodake (2025), Image Authentication Using Cryptography and Watermarking, International Journal of Image Processing and Smart Sensors, Vol. 1, Issue 2, pp 27-34.
- 90 Altaf O. Mulani, Vaibhav V. Godase, Swapnil R. Takale, Rahul G. Ghodake (2025), Advancements in Artificial Intelligence: Transforming Industries and Society, International Journal of Artificial Intelligence of Things (AIoT) in Communication Industry, Vol. 1, Issue 2, pp 1-5.

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

9001:2015

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

- 91 Altaf O. Mulani, Vaibhav V. Godase, Swapnil R. Takale, Rahul G. Ghodake (2025), AI-Powered Predictive Analytics in Healthcare: Revolutionizing Disease Diagnosis and Treatment, Journal of Advance Electrical Engineering and Devices, Vol. 3, Issue 2, pp 27-34.
- 92 Godase, V., Mulani, A., Takale, S., & Ghodake, R. (2025). A Holistic Review of Automatic Drip Irrigation Systems: Foundations and Emerging Trends. Available at SSRN 5247778.
- 93 V. Godase, R. Ghodake, S. Takale, and A. Mulani, —Design and Optimization of Reconfigurable Microwave Filters Using AI Techniques, International Journal of RF and Microwave Communication Technologies, vol. 2, no. 2, pp.26–41, Aug. 2025.
- 94 V. Godase, A. Mulani, R. Ghodake, S. Takale, "Automated Water Distribution Management and Leakage Mitigation Using PLC Systems," Journal of Control and Instrumentation Engineering, vol.11, no. 3, pp. 1-8, Aug. 2025.
- 95 V. Godase, A. Mulani, R. Ghodake, S. Takale, "PLC-Assisted Smart Water Distribution with Rapid Leakage Detection and Isolation," Journal of Control Systems and Converters, vol. 1, no. 3, pp. 1-13, Aug. 2025.
- 96 V. V. Godase, S. R. Takale, R. G. Ghodake, and A. Mulani, "Attention Mechanisms in Semantic Segmentation of Remote Sensing Images," Journal of Advancement in Electronics Signal Processing, vol. 2, no. 2, pp. 45–58, Aug. 2025.
- 97 D. Waghmare, A. Mulani, S. R. Takale, V. Godase, and A. Mulani, "A Comprehensive Review on Automatic Fruit Sorting and Grading Techniques with Emphasis on Weight-based Classification," Research & Review: Electronics and Communication Engineering, vol. 2, no. 3, pp. 1-10, Oct. 2025.
- 98 Karande, K. J., & Talbar, S. N. (2014). Independent component analysis of edge information for face recognition. Springer India.
- 99 Karande, K. J., & Talbar, S. N. (2008). Face recognition under variation of pose and illumination using independent component analysis. ICGST-GVIP, ISSN.
- 100 Gaikwad, D. S., & Karande, K. J. (2016). Image processing approach for grading and identification of diseases on pomegranate fruit: An overview. International Journal of Computer Science and Information Technologies, 7, 519-522.
- 101 Kawathekar, P. P., & Karande, K. J. (2014, July). Severity analysis of Osteoarthritis of knee joint from X-ray images: A Literature review. In 2014 International Conference on Signal propagation and computer technology (ICSPCT 2014) (pp. 648-652). IEEE.
- 102 Daithankar, M. V., Karande, K. J., & Harale, A. D. (2014, April). Analysis of skin color models for face detection. In 2014 International Conference on Communication and Signal Processing (pp. 533-537). IEEE.
- 103 Karande, J. K., Talbar, N. S., & Inamdar, S. S. (2012, May). Face recognition using oriented Laplacian of Gaussian (OLOG) and independent component analysis (ICA). In 2012 Second International Conference on Digital Information and Communication Technology and it's Applications (DICTAP) (pp. 99-103). IEEE.
- 104 Shubham Salunkhe, Pruthviraj Zambare, Sakshi Shinde, S. K. Godase. (2024). API Development for Cloud Parameter Curation International. Journal of Electrical and Communication Engineering Technology, 2(1). https://doi.org/10.37591/ijecet
- 105 Badave, A., Pawale, A., Andhale, T., Godase, S. K., & STM JOURNALS. (2024). Smart home safety using fire and gas detection system. Recent Trends in Fluid Mechanics, 1, 35–43. https://journals.stmjournals.com/rtfm
- 106 Asabe, H., Asabe, R., Lengare, O., & Godase, S. (2025). IOT- BASED STORAGE SYSTEM FOR MANAGING VOLATILE MEDICAL RESOURCES IN HEALTHCARE FACILITIES. INTERNATIONAL JOURNAL OF PROGRESSIVE RESEARCH IN ENGINEERING MANAGEMENT AND SCIENCE (IJPREMS), 05(03), 2427–2433. https://www.ijprems.com
- 107 Karche, S. N., Mulani, A. O., Department of Electronics, SKN Sinhgad College of Engineering, Korti, & University of Solapur, Maharashtra, India. (2018). AESC Technique for Scalable Face Image Retrieval. International Journal of Innovative Research in Computer and Communication Engineering, 6(4), 3404–3405.
- https://doi.org/10.15680/IJIRCCE.2018.0604036
- 108 Bankar, A. S., Harale, A. D., & Karande, K. J. (2021). Gestures Controlled Home Automation using Deep Learning: A Review. International Journal of Current Engineering and Technology, 11(06), 617–621. https://doi.org/10.14741/ijcet/v.11.6.4

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

9001:2015

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

- 109 Mali, A. S., Ghadge, S. K., Adat, A. S., & Karande, S. V. (2024). Intelligent Medication Management System. IJSRD International Journal for Scientific Research & Development, Vol. 12(Issue 3).
- 110 Water Level Control, Monitoring and Altering System by using GSM in Irrigation Based on Season. (2019). In International Research Journal of Engineering and Technology (IRJET) (Vol. 06, Issue 04, p. 1035) [Journal-article]. https://www.irjet.net
- 111 Modi, S., Misal, V., Kulkarni, S., & Mali A.S. (2025). Hydroponic Farming Monitoring System Automated system to monitor and control nutrient and pH levels. In Journal of Microcontroller Engineering and Applications (Vol. 12, Issue 3, pp. 11–16). https://doi.org/10.37591/JoMEA
- 112 Siddheshwar S. Gangonda, Prashant P. Patavardhan, Kailash J. Karande, "VGHN: variations aware geometric moments and histogram features normalization for robust uncontrolled face recognition", International Journal of Information Technology, https://doi.org/10.1007/s41870-021-00703-0.
- 113 Siddheshwar Gangonda and Prachi Mukherji, "Speech Processing for Marathi Numeral Recognition using MFCC & DTW Features", International Journal of Engineering Research And Applications (IJERA) pp. 118-122, ISSN: 2248-9622.
- 114 Siddheshwar S. Gangonda, Prashant P. Patavardhan, Kailash J. Karande, "Recognition of Marathi Numerals Using MFCC and DTW Features", Book Title: Recent Trends on Image Processing and Pattern Recognition, RTIP2R 2018, CCIS 1037, pp. 1–11, © Springer Nature Singapore Pte Ltd. 2019 https://doi.org/10.1007/978-981-13-9187-3 17.
- 115 Siddheshwar S. Gangonda, Prashant P. Patavardhan, Kailash J. Karande, "Analysis of Face Recognition Algorithms for Uncontrolled Environments", Book Title: Computing, Communication and Signal Processing, pp. 919–926, © Springer Nature Singapore Pte Ltd. 2018.
- 116 Siddheshwar S. Gangonda, Prashant P. Patavardhan, Kailash J. Karande, "Recognition of Marathi Numerals using MFCC and DTW Features", 2nd International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R 2018), 21th -22th Dec., 2018, organized by Solapur University, Solapur in collaboration with University of South Dakota (USA) and Universidade de Evora (Portugal), India.
- 117 Siddheshwar S. Gangonda, Prashant P. Patavardhan, Kailash J. Karande, "A Comprehensive Survey of Face Databases for Constrained and Unconstrained Environments", 2nd IEEE Global Conference on Wireless Computing & Networking (GCWCN-2018), 23th-24th Nov., 2018, organized by STES's Sinhgad Institute of Technology, Lonavala, India.
- 118 Siddheshwar S. Gangonda, Prashant P. Patavardhan, Kailash J. Karande, "An Extensive Survey of Prominent Researches in Face Recognition under different Conditions", 4th International Conference on Computing, Communication, Control And Automation (ICCUBEA-2018), 16th to 18th Aug. 2018 organized by Pimpri Chinchwad College of Engineering (PCCOE), Pune, India.
- 119 Siddheshwar S. Gangonda, Prashant P. Patavardhan, Kailash J. Karande, "Analysis of Face Recognition Algorithms for Uncontrolled Environments", 3rd International Conference on Computing, Communication and Signal Processing (ICCASP 2018), 26th-27th Jan.2018, organized by Dr. BATU, Lonere, India.
- 120 Siddheshwar Gangonda and Prachi Mukherji, "Speech Processing for Marathi Numeral Recognition", International Conference on Recent Trends, Feb 2012, IOK COE, Pune.
- 121 S. S. Gangonda, "Bidirectional Visitor Counter with automatic Door Lock System", National Conference on Computer, Communication and Information Technology (NCCCIT-2018), 30th and 31st March 2018 organized by Department of Electronics and Telecommunication Engineering, SKN SCOE, Korti, Pandharpur.
- 122 Siddheshwar Gangonda and Prachi Mukherji, "Speech Processing for Marathi Numeral Recognition using MFCC & DTW Features", ePGCON 2012, 23rd and 24th April 2012 organized by Commins COE for Woman, Pune.
- 123 Siddheshwar Gangonda and Prachi Mukherji, "Speech Processing for Marathi Numeral Recognition", National Conference on Emerging Trends in Engineering and Technology (VNCET'12), 30th March 2012 organized by Vidyavardhini's College of Engineering and Technology, Vasai Road, Thane.
- 124 Siddheshwar Gangonda and Prachi Mukherji, "Speech Processing for Marathi Numeral Recognition", ePGCON 2011, 26th April 2011 organized by MAEER's MIT, Kothrud, Pune-38.

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

ogy 9001:2015

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

- 125 Siddheshwar Gangonda, "Medical Image Processing", Aavishkar-2K7, 17th and 18th March 2007 organized by Department of Electronics and Telecommunication Engineering, SVERI's COE, Pandharpur.
- 126 Siddheshwar Gangonda, "Image enhancement & Denoising", VISION 2k7, 28th Feb-2nd March 2007 organized by M.T.E. Society's Walchand College of Engineering, Sangli.
- 127 Siddheshwar Gangonda, "Electromagnetic interference & compatibility" KSHITIJ 2k6, 23rd and 24th Sept. 2006 organized by Department of Mechanical Engineering, SVERI's COE, Pandharpur.
- 128 A. Pise and K. Karande, "A genetic Algorithm-Driven Energy-Efficient routing strategy for optimizing performance in VANETs," Engineering Technology and Applied Science Research, vol. 15, no. 5, 2025, [Online]. Available: https://etasr.com/index.php/ETASR/article/view/12744
- 129 A. C. Pise, K. J. Karande, "Investigating Energy-Efficient Optimal Routing Protocols for VANETs: A Comprehensive Study", ICT for Intelligent Systems, Lecture Notes in Networks and Systems 1109, Proceedings of ICTIS 2024 Volume 3, Lecture Notes in Networks and Systems, Springer, Singapore, ISSN 2367-3370, PP 407-417, 29 October 2024 https://doi.org/10.1007/978-981-97-6675-8 33.
- 130 A. C. Pise, et. al., "Smart Vehicle: A Systematic Review", International Journal The Ciência & Engenharia Science & Engineering Journal ISSN: 0103-944XVolume 11 Issue 1, 2023pp: 992–998, 2023.
- 131 A. C. Pise, et. al., "Smart Vehicle: A Systematic Review", International Journal of Research Publication and Reviews, ISSN 2582-7421, Vol 4, no 10, pp 2728-2731 October 2023.
- 132 A. C. Pise, et. al., "Development of BIOBOT System to Assist COVID Patient and Caretakers", European Journal of Molecular and Clinical Medicine; 10(1):3472-3480, 2023.
- 133 A. C. Pise, et. al., "IoT Based Landmine Detection Robot", International Journal of Research in Science & EngineeringISSN: 2394-8299Vol: 03, No. 04, June-July 2023.
- 134 A. C. Pise, et. al., "A Systematic survey on Estimation of Electrical Vehicle", Journal of Electronics, Computer Networking and Applied Mathematics (JECNAM) ISSN: 2799-1156, Volume 3, Issue 01, Pages 1-6, December 2023.
- 135 A. C. Pise, et. al., "Python Algorithm to Estimate Range of Electrical Vehicle", Web of Science, Vol 21, No 1 (2022) December 2022
- 136 A. C. Pise, et. al., "Implementation of BIOBOT System for COVID Patient and Caretakers Assistant using IOT", International Journal of Information technology and Computer Engineering. 30-43. 10.55529/ijitc.21.30.43, (2022).
- 137 A. C. Pise, et. al., "An IoT Based Real Time Monitoring of Agricultural and Micro irrigation system", International journal of scientific research in Engineering and management (IJSREM), VOLUME: 06 ISSUE: 04 | APRIL 2022, ISSN:2582-3930.
- 138 A. C. Pise, Dr. K. J. Karande, "An Exploratory study of Cluster Based Routing Protocol in VANET: A Review", International Journal of Advanced Research in Engineering and Technology(IJARET), 12,10, 2021, 17-30, Manuscript ID:00000-94375 Source ID:0000006, Journal_uploads/ IJARET/VOLUME_12_ISSUE_10/IJARET_12_10_002.pdf 139 A. C. Pise, et. al., "Android based Portable Health Support System," A Peer Referred & Indexed International Journal of Research, Vol.8, issue.4, April 2019.
- 140 A. C. Pise, et. al., "Facial Expression Recognition Using Image Processing," International Journal of VLSI Design, Microelectronics and Embedded System, Vol. 3, issue . 2, July 2018.
- 141 A. C. Pise, et. al., "Detection of Cast Iron Composition by Cooling Curve Analysis using Thermocouple Temperature Sensor," UGC Approved International Journal of Academic Science (IJRECE), Vol.6, Issue.3, July-September 2018.
- 142 A. C. Pise, et. al., "Android Based Portable Health Support", System International Journal of Engineering Sciences & Research Technology (IJESRT 2017) Vol.6, Issue 8, pp 85-88 5th Aug 2017
- 143 A. C. Pise, et. al., "Adaptive Noise Cancellation in Speech Signal", International Journal of Innovative Engg and Technology, 2017
- 144 A. C. Pise, et. al., "Lung Cancer Detection System by using Baysian Classifier", ISSN 2454-7875, IJRPET, published online in conference special issue VESCOMM-2016, February 2016
- 145 A. C. Pise, et. al., "Review on Agricultural Plant Diseases Detection by Image Processing", ISSN 2278-62IX, IJLTET, Vol 7, Issue 1 May 2016

Copyright to IJARSCT www.ijarsct.co.in



DOI: 10.48175/IJARSCT-29525

ISSN 2581-9429 IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025 Impact Fa



ISSN: 2581-9429

- 146 A. C. Pise, et. al. "Segmentation of Retinal Images for Glaucoma Detection", International Journal of Engineering Research and Technology (06, June-2015).
- 147 A. C. Pise, et. al. "Color Local Texture Features Based Face Recognition", International Journal of Innovations in Engineering and Technology(IJIET), Dec. 2014
- 148 A. C. Pise, et. al. "Single Chip Solution For Multimode Robotic Control", International Journal of Engineering Research and Technology (IJERT-2014), Vol. 3, Issue 12, Dec. 2014.
- 149 Anjali C. Pise et. al., "Remote monitoring of Greenhouse parameters using zigbee Wireless Sensor Network", International Journal of Engineering Research & Technology ISSN 2278-0181 (online) Vol. 3, Issue 2, and pp: (2412-2414), Feb. 2014.
- 150 A. C. Pise, K. J. Karande, "Cluster Head Selection Based on ACO In Vehicular Ad-hoc Networks", Machine Learning for Environmental Monitoring in Wireless Sensor Networks
- 151 A. C. Pise, K. J. Karande, "Architecture, Characteristics, Applications and Challenges in Vehicular Ad Hoc Networks" Presented in 27th IEEE International Symposium on Wireless Personal Multimedia Communications (WPMC 2024) "Secure 6G AI Nexus: Where Technology Meets Humanity" Accepted for book chapter to be published in international Scopus index book by River publisher.
- 152 A. C. Pise, Dr. K. J. Karande, "K-mean Energy Efficient Optimal Cluster Based Routing Protocol in Vehicular Ad Hoc Networks", International Conference on Innovations in Artificial Intelligence and Machine Learning (ICAIML-2022), August 20th and 21st 2022 Springer database Conference.
- 153 A. C. Pise, Mr. D. Nale, "Web-Based Application for Result Analysis", ", International Conference on Innovations in Artificial Intelligence and Machine Learning (ICAIML-2022), August 20th and 21st 2022 Springer database Conference.
- 154 A. C. Pise, et. al., "Detection of Cast Iron Composition by Cooling Curve Analysis using Thermocouple Temperature Sensor," 2nd International Conference on Engineering Technology, Science and Management Innovation (ICETSMI 2018), 2nd September 2018.
- 155 A. C. Pise, et. al., "Facial Expression Recognition Using Facial Features," IEEE International Conference on Communication and Electronics Systems (ICCES 2018), October 2018.
- 156 A. C. Pise, et. al., "Estimating Parameters of Cast Iron Composition using Cooling Curve Analysis," IEEE International Conference on Communication and Electronics Systems (ICCES 2018), Coimbatore, October 2018.
- 157 A. C. Pise, et. al., "Android based portable Health Support System," International Conference on Innovations in Engineering and Technology (CIET 2016), SKN Sinhgad College of Engineering, 30-31 Dec 2016.
- 158 A. C. Pise, et. al., "Baysian Classifier & FCM Segmentation for Lung Cancer Detection in early stage," International Conference on Innovations in Engineering and Technology (CIET 2016), SKN Sinhgad College of Engineering, 30-31 Dec 2016.
- 159 A. C. Pise, et. al., "Cast Iron Composition Measurement by Coding Curve Analysis," International Conference on Innovations in Engineering and Technology (CIET 2016), SKN Sinhgad College of Engineering, 30-31 Dec 2016.
- 160 A. C. Pise, et. al., "War field Intelligence Defence Flaging Vehicle," International Conference on Innovations in Engineering and Technology (CIET 2016), SKN Sinhgad College of Engineering, 30-31 Dec 2016.
- 161 A. C. Pise, et. al. "Disease Detection of Pomegranate Plant", IEEE sponsored International Conference on Computation of Power, Energy, Information and Communication, 22-23 Apr. 2015.
- 162 A. C. Pise, P. Bankar. "Face Recognition by using GABOR and LBP", IEEE International Conference on Communication and Signal Processing, ICCSP, 2-4 Apr. 2015
- 163 A. C. Pise, et. al. "Single Chip Solution For Multimode Robotic Control", Ist IEEE International Conference on Computing Communication and Automation, 26-27 Feb2015.
- 164 Anjali C. Pise, Vaishali S. Katti, "Efficient Design for Monitoring of Greenhouse Parameters using Zigbee Wireless Sensor Network", fifth SARC international conference IRF,IEEE forum ISBN 978-93-84209-21-6,pp 24-26, 25th May 2014
- 165 A. C. Pise, P. Bankar, "Face Recognition using Color Local Texture Features", International Conference on Electronics and Telecommunication, Electrical and Computer Engineering, Apr. 2014.

Copyright to IJARSCT www.ijarsct.co.in



DOI: 10.48175/IJARSCT-29525

ISSN 2581-9429 IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

- 166 A. C. Pise, et.al. "Monitoring parameters of Greenhouse using Zigbee Wireless Sensor Network", 1st International Conference on Electronics and Telecommunication, Electrical and Computer Engineering, 5-6 Apr.2014.
- 167 A. C. Pise, et. al. "Compensation schemes and performance Analysis of IQ Imbalances in Direct Conversion Receivers", International Conference at GHPCOE, Gujarat, (Online Proceeding is Available), 2009.
- 168 A. C. Pise, K. J. Karande, "Energy-Efficient Optimal Routing Protocols in VANETs", 66th Annual IETE Convention, AIC -2023 September16-17, 2023, under the Theme: The Role of 5G In Enabling Digital Transformation for Rural Upliftment.
- 169 A. C. Pise, et. al. "Automatic Bottle Filling Machine using Raspberry Pi", National Conference on computer ;Communication & information Technology (NCCIT-2018) dated 30th & 31st March 2018.
- 170 A. C. Pise, et. al. "Design & Implementation of ALU using VHDL", National Conference on computer ;Communication & information Technology (NCCIT-2018) dated 30th & 31st March 2018.
- 171 A. C. Pise, et. al. "Mechanism and Control of Autonomus four rotor Quad copter", National Conference on Computer, Electrical and Electronics Engineering, 23- 24 Apr. 2016.
- 172 A. C. Pise, et. al. "Segmentation of Optic Disk and Optic Cup from retinal Images", ICEECMPE Chennai, June 2015
- 173 A. C. Pise, et. al. "Diseases Detection of Pomegranate Plant", IEEE Sponsored International conference on Computation of Power, Energy, April 2015.
- 174 A. C. Pise, et. al. "Compensation Techniques for I/Q Imbalance in Direct-Conversion Receivers", Conference at SCOE, Pune 2010.
- 175 A. C. Pise, et. al. "I/Q Imbalance compensation Techniques in Direct Conversion Receiver", Advancing Trends in Engineering and Management Technologies, ATEMT-2009, Conference at Shri Ramdeobaba Kamla Nehru Engineering College, Nagpur, 20-21 November 2009
- 176 A. C. Pise, et. al. "Compensation Techniques for I/Q Imbalance in Direct Conversion Receiver", Conference at PICT, Pune 2008.
- 177 A. C. Pise, et. al. "I/Q Imbalance compensation Techniques in Direct Conversion Receiver", Conference at DYCOE, Pune 2008.
- 178 A. C. Pise, et. al. "DUCHA: A New Dual channel MAC protocol for Multihop Ad-Hoc Networks", Conference at SVCP, Pune 2007.
- 179 Godase, V., Pawar, P., Nagane, S., & Kumbhar, S. (2024). Automatic railway horn system using node MCU. Journal of Control & Instrumentation, 15(1).
- 180 Godase, V., & Godase, J. (2024). Diet prediction and feature importance of gut microbiome using machine learning. Evolution in Electrical and Electronic Engineering, 5(2), 214-219.
- 181 Jamadade, V. K., Ghodke, M. G., Katakdhond, S. S., & Godase, V. A Comprehensive Review on Scalable Arduino Radar Platform for Real-time Object Detection and Mapping.
- 182 Godase, V. (2025). A comprehensive study of revolutionizing EV charging with solar-powered wireless solutions. Advance Research in Power Electronics and Devices e-ISSN, 3048-7145.
- 183 Godase, V. (2025, April). Advanced Neural Network Models for Optimal Energy Management in Microgrids with Integrated Electric Vehicles. In Proceedings of the International Conference on Trends in Material Science and Inventive Materials (ICTMIM-2025) DVD Part Number: CFP250J1-DVD.
- 184 Dange, R., Attar, E., Ghodake, P., & Godase, V. (2023). Smart agriculture automation using ESP8266 NodeMCU. J. Electron. Comput. Netw. Appl. Math, (35), 1-9.
- 185 Godase, V. (2025). Optimized Algorithm for Face Recognition using Deepface and Multi-task Cascaded Convolutional Network (MTCNN). Optimum Science Journal.
- 186 Mane, V. G. A. L. K., & Gangonda, K. D. S. Pipeline Survey Robot.
- 187 Godase, V. (2025). Navigating the digital battlefield: An in-depth analysis of cyber-attacks and cybercrime. International Journal of Data Science, Bioinformatics and Cyber Security, 1(1), 16-27.
- 188 Godase, V., & Jagadale, A. (2019). Three element control using PLC, PID & SCADA interface. International Journal for Scientific Research & Development, 7(2), 1105-1109.

Copyright to IJARSCT www.ijarsct.co.in



ISSN 2581-9429 IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.67

Volume 5, Issue 4, October 2025

189 Godase, V. (2025). Edge AI for Smart Surveillance: Real-time Human Activity Recognition on Low-power Devices. International Journal of AI and Machine Learning Innovations in Electronics and Communication Technology, 1(1), 29-46.

190 Godase, V., Modi, S., Misal, V., & Kulkarni, S. (2025). LoRaEdge-ESP32 synergy: Revolutionizing farm weather data collection with low-power, long-range IoT. Advance Research in Analog and Digital Communications, 2(2), 1-11.

191 Godase, V. (2025). Comparative study of ladder logic and structured text programming for PLC. Available at SSRN 5383802.

192 Godase, V., Modi, S., Misal, V., & Kulkarni, S. Real-time object detection for autonomous drone navigation using YOLOv8, || . Advance Research in Communication Engineering and its Innovations, 2(2), 17-27.

193 Godase, V. (2025). Smart energy management in manufacturing plants using PLC and SCADA. Advance Research in Power Electronics and Devices, 2(2), 14-24.

194 Godase, V. (2025). IoT-MCU Integrated Framework for Field Pond Surveillance and Water Resource Optimization. International Journal of Emerging IoT Technologies in Smart Electronics and Communication, 1(1), 9-19.

195 Godase, V. (2025). Graphene-Based Nano-Antennas for Terahertz Communication. International Journal of Digital Electronics and Microprocessor Technology, 1(2), 1-14.

196 Godase, V., Khiste, R., & Palimkar, V. (2025). AI-Optimized Reconfigurable Antennas for 6G Communication Systems. Journal of RF and Microwave Communication Technologies, 2(3), 1-12.

197 Bhaganagare, S., Chavan, S., Gavali, S., & Godase, V. V. (2025). Voice-Controlled Home Automation with ESP32: A Systematic Review of IoT-Based Solutions. Journal of Microprocessor and Microcontroller Research, 2(3), 1-13.

198 Jamadade, V. K., Ghodke, M. G., Katakdhond, S. S., & Godase, V. A Comprehensive Review on Scalable Arduino Radar Platform for Real-time Object Detection and Mapping.

199 Godase, V. (2025). Cross-Domain Comparative Analysis of Microwave Imaging Systems for Medical Diagnostics and Industrial Testing. Journal of Microwave Engineering & Technologies, 12(2), 39-48p.

200 V. K. Jamadade, M. G. Ghodke, S. S. Katakdhond, and V. Godase, —A Review on Real-time Substation Feeder Power Line Monitoring and Auditing Systems," International Journal of Emerging IoT Technologies in Smart Electronics and Communication, vol. 1, no. 2, pp. 1-16, Sep. 2025.

201 V. V. Godase, "VLSI-Integrated Energy Harvesting Architectures for Battery-Free IoT Edge Systems," Journal of Electronics Design and Technology, vol. 2, no. 3, pp. 1-12, Sep. 2025.

202 A. Salunkhe et al., "A Review on Real-Time RFID-Based Smart Attendance Systems for Efficient Record Management," Advance Research in Analog and Digital Communications, vol. 2, no. 2, pp.32-46, Aug. 2025.

203 Vaibhav, V. G. (2025). A Neuromorphic-Inspired, Low-Power VLSI Architecture for Edge AI in IoT Sensor Nodes. Journal of Microelectronics and Solid State Devices, 12(2), 41-47p.

204 Nagane, M.S., Pawar, M.P., & Godase, P.V. (2022). Cinematica Sentiment Analysis. Journal of Image Processing and Intelligent Remote Sensing.

205 Godase, V.V. (2025). Tools of Research. SSRN Electronic Journal.

206 Godase, V. (n.d.). EDUCATION AS EMPOWERMENT: THE KEY TO WOMEN'S SOCIO ECONOMIC DEVELOPMENT. Women Empowerment and Development, 174–179.

207 Godase, V. (n.d.). COMPREHENSIVE REVIEW ON EXPLAINABLE AI TO ADDRESSES THE BLACK BOX CHALLENGE AND ITS ROLE IN TRUSTWORTHY SYSTEMS. In Sinhgad College of Engineering, Artificial Intelligence Education and Innovation (pp. 127–132).

208 Godase, V. (n.d.-b). REVOLUTIONIZING HEALTHCARE DELIVERY WITH AI-POWERED DIAGNOSTICS: A COMPREHENSIVE REVIEW. In SKN Sinhgad College of Engineering, SKN Sinhgad College of Engineering (pp. 58–61).

209 Dhope, V. (2024). SMART PLANT MONITORING SYSTEM. In International Journal of Creative Research Thoughts (IJCRT). https://www.ijcrt.org

Copyright to IJARSCT www.ijarsct.co.in







International Journal of Advanced Research in Science, Communication and Technology

ISO 9001:2015

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, October 2025

Impact Factor: 7.67

- 210 M. M. Zade, Sushant D. Kambale, Shweta A. Mane, Prathamesh M. Jadhav. (2025) "IOT Based early fire detection in Jungles". RIGJA&AR Volume 2 Issue 1, ISSN: 2998-4459. DOI: https://doi.org/10.5281/zendo.15056435
- 211 M. M. Zade, Bramhadev B. Rupanar, Vrushal S. Shilawant, Akansha R. Pawar(2025) "IOT Flood Monitoring & Alerting System using Rasberry Pi-Pico" International Journal of Research Publication & Reviews, Volume 6, Issue 3,ISSN:2582-7421.DOI:https://iirpr.com/uploads/V6ISSUE3/IJRPR40251.pdf
- 212 M.M.Zade(2022) "Touchless Fingerprint Recognition System"(Paper-ID 907)(2022) International Conference on "Advanced Technologies for Societal Applications: Techno-Societal 2022 https://link.springer.com/book/10.1007/978-3-031-34644-6?page=6
- 213 Mr.M.M.Zade published the paper on "Automation of Color Object Sorting Conveyor Belt", in International Journal of Scientific Research in Engineering & Management (IJSREM),ISSN:2582-3930 Volume 06, Issue 11th November 2022.
- 214 Mr.M.M.Zade published the paper on "Cloud Based Patient Health Record Tracking web Development",in International Journal of Advanced Research in Science, Communication & Technology(IJARSCT),ISSN NO:2581-9429 Volume 02, Issue 03,DOI 1048175/IJARSCT-3705,IF 6.252, May 2022.
- 215 Mr. Mahesh M Zade, "Performance analysis of PSNR Vs. Impulse Noise for the enhancement of Image using SMF", Journal of Applied Science & Computations (JASC UGC Approved), Volume VI, Issue II, Feb.2019
- 216 Mr. Mahesh M Zade, "Classification of Power Quality Disturbances Using SVM & their Efficiency Comparison", Journal of Applied Science & Computations (JASC UGC Approved), Volume VI, Issue II, Feb.2019
- 217 Mr. Mahesh M Zade, "Dynamic Clustering of Wireless Sensor Network Using Modified AODV", Journal of Applied Science & Computations (JASC UGC Approved), Volume VI, Issue II, Feb.2019
- 218 Mr. Mahesh M Zade, "Performance analysis of PSNR Vs. Impulse Noise for the enhancement of Image using SMF", National Conference on Mathematical Modeling and Computational Intelligence 2K19 (MMCI-2k19), in association with JASC, at S. B. Patil College of Engineering, Indapur, Feb.2019
- 219 Mr. Mahesh M Zade, "Classification of Power Quality Disturbances Using SVM & their Efficiency Comparison", National Conference on Mathematical Modeling and Computational Intelligence 2K19 (MMCI-2k19), in association with JASC, at S. B. Patil College of Engineering, Indapur Feb.2019
- 220 Mr. Mahesh M Zade, "Dynamic Clustering of Wireless Sensor Network Using Modified AODV", National Conference on Mathematical Modeling and Computational Intelligence 2K19 (MMCI-2k19), in association with JASC, at S. B. Patil College of Engineering, Indapur Feb.2019
- 221 Mr. Mahesh M Zade & Mr.S.M.Karve,"Performance Analysis of Median Filter for Enhancement of Highly Corrupted Images", National Conference on Advanced Trends in Engineering, Association with IRJMS, Karmyogi Engineering College, Shelave, Pandharpur, March 2016.
- 222 Mr. Mahesh M Zade & Mr.S.M.Karve,"Implementation of Reed Solomen Encoder & Decoder Using FPGA", National Conference on Advanced Trends in Engineering, Association with IRJMS, Karmyogi Engineering College, Shelave, Pandharpur, March 2016.
- 223 Mr. Mahesh M Zade & Dr.S.M.Mukane,"Performance of Switching Median Filter for Enhancement of Image", National Conference on Mechatronics at Sinhgad Institute of Technology and Science, Narhe, Pune, Feb. 2016.
- 224 Mr. Mahesh M Zade & Dr.S.M.Mukane, "Enhancement of Image with the help of Switching Median Filter", National Conference on Emerging Trends in Electronics & Telecommunication Engineering, SVERI's College of Engineering Pandharpur, NCET 2013.
- 225 Mr.Mahesh M Zade & Dr.S.M.Mukane, "Enhancement of Image with the help of Switching Median Filter", International Journal of Computer Application (IJCA) SVERI's College of Engineering, Pandharpur, Dec. 2013.
- 226 A. O. Mulani, V. Godase, S. Takale, and R. Ghodake, "Secure Image Authentication using AES and DWT Watermarking on Reconfigurable Platform," International Journal of Embedded System and VLSI Design, vol. 1, no. 2, pp. 14-20, Oct. 2025

