



RESEARCH PAPERS PUBLISHED RECENTLY BY FACULTY MEMBERS OF JAYA ENGINEERING COLLEGE: DECEMBER 2024

The faculty members of the institution have published research papers as below with the UG / PG students or jointly with faculty members / researchers of other institutions

1. **Dr. V. Sureshkumar / Principal: Paper published in Nature - Scientific Reports which is Indexed by SCI and listed in Anna University Journals.**

For viewing the full paper, visit:

<https://www.nature.com/articles/s41598-024-76306-z>

www.nature.com/scientificreports

scientific reports

OPEN **Implementation of a novel secured authentication protocol for cyber security applications**

V. Suresh Kumar¹, Osamah Ibrahim Khalaf², Radha Raman Chandan³, Qusay Bsoul⁴, Shashi Kant Gupta^{5,6}, Firas Zawaideh⁷, Deema Mohammed Alsekait⁸ & Diaa Salama AbdElminaam^{9,10}

2. **Dr. M. Somasundaram / Dean – Research: 4 papers published in Conference Proceedings (with ISBN Number) National Conference on Advanced Technology in Computer Application (NCATCA – 2024) in association with International Journal of Innovative Research in Science , Engineering and Technology (IJIRSET)**

Published by faculty members with PG students

For viewing the 4 full papers, visit:

<https://www.ijirset.com/special-issue-NCATCA-2024>

2 samples (out of the 4 papers) is as given below:



Crop Recommendation System using Machine Learning

Jaikrishna E R¹, Prof. Dr.D.Balasubramanian², Dr.M.Somasundaram³

PG Student, Department of Computer Applications,

Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India¹.

Professor & Head, Department of Computer Applications,

Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India².

Dean - Research, Jaya Group of Institutions, Professor -Department of CSE,

Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India³.

ABSTRACT: A Crop Recommendation System for South Indian states uses various inputs like soil type, rainfall, groundwater level, temperature, fertilizers, pesticides, and season. This system uses a hybrid machine learning model to suggest suitable crops, helping farmers increase yields by considering geographic and climatic factors. The model effectively recommends crops and updates production values, guiding agricultural practices and notifying farmers of market rate changes. By improving crop selection, this system addresses agricultural issues, enhances crop quality, and supports economic growth. Using multiple classifiers and a ranking process improves prediction accuracy and crop cost estimation.

KEYWORDS: Web Application, HTML, CSS, Python, MySQL.



Hospital Management System for Patients in Springboot Application

Rajkumar C¹, Mrs.S. Merlin Reena², Dr.M.Somasundaram³

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Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India¹.

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Dean - Research, Jaya Group of Institutions, Professor -Department of CSE,

Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India³.

ABSTRACT: The Hospital Management System for Patients is a comprehensive and user-friendly web application developed using the Spring Boot framework. This system aims to streamline and optimize various aspects of patient management within healthcare facilities, providing healthcare professionals with efficient tools to manage patient information, appointments, medical records, and more. The system offers a secure and centralized platform for hospitals and clinics, enhancing the overall patient care experience and facilitating better decision-making for healthcare providers. Through its intuitive interface and robust functionalities, the Hospital Management System for Patients seeks to improve the quality and accessibility of healthcare services while ensuring data confidentiality and integrity.

KEYWORDS: Hospital Management System, SpringBoot, Healthcare IT, Electronic Medical Records (EMR), Patient Management, Administrative Tools, Software Development, Java Programming, Web Application, Database Integration.

3. Dr. Kayalvizhi / Textile : Paper published in International Journal of Innovative Research in Technology (IJIRT) - an UGC approved journal, indexed in Google Scholar.

Published by faculty members with PG Student.

For viewing the full paper, visit:

https://ijirt.org/publishedpaper/IJIRT170017_PAPER.pdf

Non woven fabric using the combination of Banana fiber, Tulsi extract and Cotton fiber

Mr. L. Nagarajan, Dr. C. Kayalvizhi, M. Gowsi Bawani

Associate Professor, Department of textile technology, Jaya Engineering College, Thiruninravur, Chennai

Professor, Department of textile technology, Jaya Engineering College, Thiruninravur, Chennai.
Student, 2nd year, M.Tech Textile technology, Jaya Engineering College, Thiruninravur, Chennai.

4. Dr.V.Seedha Devi / IT : Publishing a chapter in the book by a reputed publisher.

The topic is on Big Data applied to Medical field.

Chapter 11

Harnessing Big Data for Early Detection and Progression Tracking of Alzheimer's Disease

Annie Silviya S. H., Gethara Gowri C.,
Yogashree G. S., Seedha Devi V., Kalaivani E.

Early detection and monitoring of Alzheimer's disease (AD) are critical challenges in neurology. This research explores the transformative potential of big data analytics to address these challenges. By integrating extensive datasets from diverse sources—genomic data, electronic health records (EHRs), neuroimaging, and patient lifestyle information—we aim to identify early biomarkers and track disease progression with high precision. Advanced machine learning techniques, including deep learning and ensemble models, are applied to uncover hidden patterns and correlations that traditional methods may overlook. Our models demonstrated high accuracy in identifying early biomarkers, with a diagnostic accuracy of 94% (AUC) and an ability to predict disease progression with 92% accuracy. The study also highlighted a 35% improvement in early diagnosis rates and a 20% slower progression rate in monitored patients. Additionally, the importance of data preprocessing, feature extraction, and model interpretability is emphasized to ensure reliable and actionable insights.

5. Dr. P. Mohanraj / Aero; Paper published in AIP Conference Proceedings indexed in Scopus (Elsevier)

Published by JEC faculty members jointly with a Research team of another institution (Vel Tech).

Topic is inter disciplinary involving Chemistry.

For viewing the full paper, visit:

<https://pubs.aip.org/aip/acp/article-abstract/3192/1/020019/3322161/Survey-on-enhancing-the-physiochemical-properties?redirectedFrom=fulltext>

The image shows a screenshot of a research article page from AIP Conference Proceedings. On the left, there is a vertical grey bar with the text "AIP Conference Proceedings" in white. The main content area is white and contains the following information:

- RESEARCH ARTICLE | NOVEMBER 25 2024
- Survey on enhancing the physiochemical properties of organic and inorganic compounds using shockwave applications** **FREE**
- Authors: Jeba Priyadarshini Jayaraj; Naren Shankar Radha Krishnan; Saptarshi Maji; Kevin Bennett Sundara Sekaran; Mohanraj Palani; Barath Raj Devaraj; Jeyan Sekar
- Journal: *AIP Conf. Proc.* 3192, 020019 (2024)
- DOI: <https://doi.org/10.1063/5.0241803>
- Buttons: "View Online" (with a globe icon) and "Export Citation" (with a document icon)
- Section: "Articles You May Be Interested In"
- Three related articles are listed:
 - "Role of dielectric and physiochemical properties of Dantewada region of India" (*AIP Conf. Proc.* (June 2023))
 - "Gold nanoparticles as theranostics: An overview" (*AIP Conf. Proc.* (September 2023))
 - "Physio chemical analysis of Maricadi gutika, A traditional ayurvedic medicine and the evaluation of its invitro antibacterial activity against selected respiratory pathogens – *Staphylococcus aureus* and *Klebsiella pneumoniae*" (*AIP Conf. Proc.* (July 2024))

6. **Dr. Kayalvizhi / Textile; Paper published in International Journal of Engineering Research and Development (IJERD) , a journal with Impact Factor 6.51, in UGC Care list, indexed with Google Scholar and others.**

Published jointly with faculty members of other disciplines and other institutions including Hindusthan Institute of Technology and Science.

For viewing the full paper, visit:

<https://ijerd.com/paper/vol20-issue11/201113971415.pdf>

Developments in textile electrodes for healthcare monitoring

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Dr.N.Gokarneshan³, Z.Shahanaz¹, R.Sasirekha¹, Dr.U.Ratna⁴, Dr.C.Kayalvizhi⁵,
Dr.D.Anita Rachel⁶, J.Lavanya⁷ and S.R.Viswanath⁸

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⁶ Department of Fashion Design, Footwear Design and Development Institute, Noida, Uttar Pradesh, India.

⁷ Department of Fashion Design, SRM Institute of Science and Technology, Kattankalathur, Chennai, Tamil Nadu, India.

⁸ Department of Textile Technology, Park College of Engineering and Technology, Coimbatore, Tamil Nadu, India.


7. Dr. Gomathy Paul / EEE: Paper published in The Bioscan, an International Quarterly Journal of Life Sciences indexed in Web of Science, Google Scholar. etc.

Published jointly with 5 faculty members of other institutions including Dhanalakshmi Srinivasan College of Engineering and Technology.

Paper is on an inter disciplinary topic of AI & ML in Wave Energy converters.

For viewing the full paper, visit:

<https://thebioscan.com/index.php/pub/article/view/2601>



The Bioscan 19(2): 52: 400-405, 2024
AN INTERNATIONAL QUARTERLY JOURNAL OF LIFE SCIENCES

www.thebioscan.com

Implementation of novel Machine Learning Technique using several Meta with Naive Bayes Models to Analyse the Performance of Wave Energy Converters

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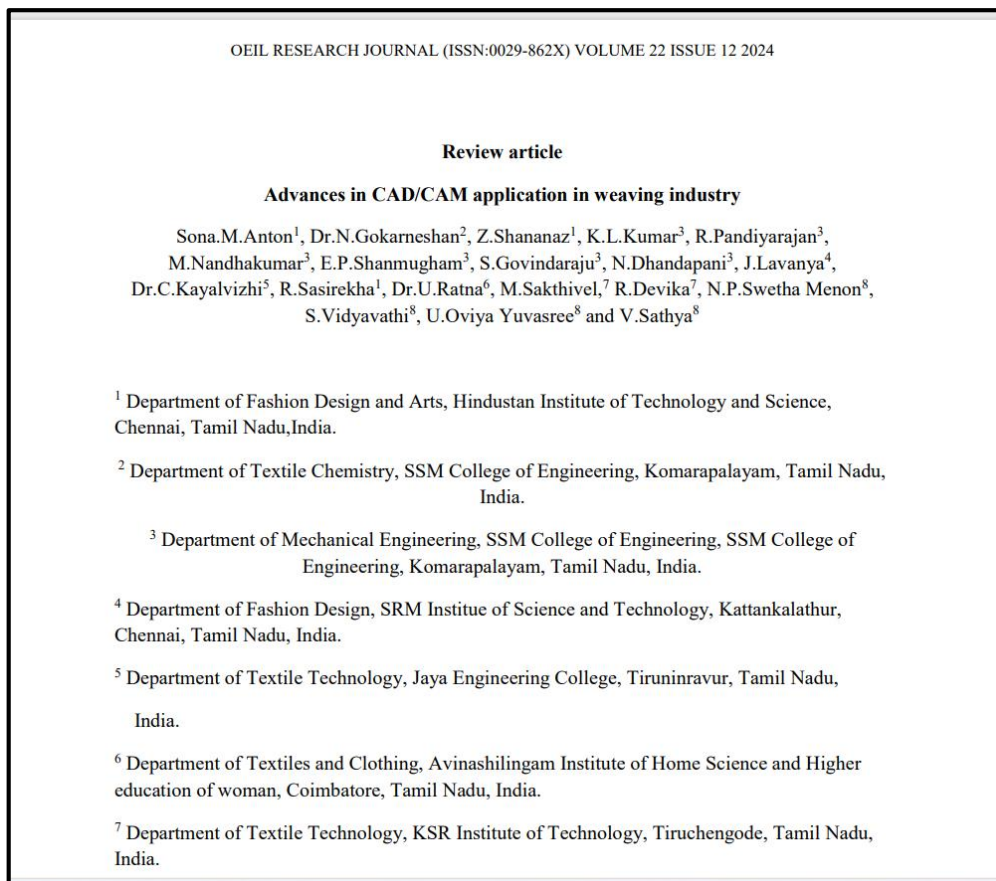
DOI: <https://doi.org/10.63001/tbs.2024.v19.i02.S2.pp400-405>

8. Dr. C. Kayalvizhi / Textile; Paper published in the Oeil Research Journal (ISSN: 0029-862X) Scopus Active Index (2002 - 2024)

Published jointly with faculty members of other disciplines and other institutions including Hindusthan Institute of Technology and Science.

It is a Review Article on an interdisciplinary topic of Advances in CAD/CAM application in weaving industry.

For viewing the full paper, visit: <https://zenodo.org/records/14265337>



9. Dr. D. Balasubramanian / MCA: 17 papers published in Conference Proceedings (with ISBN Number) National Conference on Advanced Technology in Computer Application (NCATCA – 2024) in association with International Journal of Innovative Research in Science , Engineering and Technology (IJIRSET)

Published by faculty members with PG students

For viewing the 17 full papers, visit:

<https://www.ijirset.com/special-issue-NCATCA-2024>

2 samples (out of the 17 papers) is as given below:



AI Chatbot for Answering FAQs using Machine Learning

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Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India¹.

Professor & Head, Department of Computer Applications,

Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India².

ABSTRACT: This study explores the integration of a college chatbot designed to enhance communication and access to information within higher education institutions. The chatbot serves multiple functions including delivering event calendars, campus maps, news updates, and responding to student inquiries. By providing timely and relevant information, the chatbot aims to improve students' engagement with campus life and administration. This research examines the impact of the chatbot on students' ability to stay informed about campus events and its overall contribution to enhancing their college experience. The findings underscore the potential of chatbots as a valuable tool for fostering efficient communication and connectivity between students and their academic environment. The implications suggest that integrating chatbot technology can significantly enhance the educational experience by streamlining access to essential campus information and services. Future research could further explore the scalability and customization of chatbot functionalities to better meet diverse student needs and preferences in higher education settings.

KEYWORDS: Chatbot, Machine Learning, NLP Algorithms.



Chatting with PDFS using Streamlit, LLM, and Hugging Face API

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Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India¹.

Professor & Head, Department of Computer Applications,

Jaya Engineering College, Thiruninravur, Chennai, Tamil Nadu, India².

ABSTRACT: This paper presents a cutting-edge system designed to facilitate interactive querying of PDF documents using a seamless integration of Streamlit, Large Language Models (LLMs), and the Hugging Face API. The primary objective is to address the inefficiencies and limitations associated with traditional methods of extracting information from PDF documents. By leveraging advanced natural language processing capabilities, the system allows users to upload PDF files and interact with their content through natural language queries. The system's architecture includes several key components: a user-friendly interface built with Streamlit, robust text extraction using PyMuPDF and pdminer, sophisticated query processing via LLMs accessed through the Hugging Face API, and dynamic response generation. This methodology ensures precise and contextually relevant information retrieval from the documents. The paper details the comprehensive design and implementation process of the system, highlighting the software and hardware requirements, the step-by-step working procedure, and the intricate system architecture. Additionally, it discusses the results obtained from practical applications of the system, showcasing its efficiency and accuracy through various use-case scenarios. The conclusion provides insights into the potential improvements and future enhancements that can be made to further optimize the system. This innovative approach not only enhances the user experience in document querying but also sets a new benchmark in the field of interactive information retrieval.

KEYWORDS: For the project "Chatting with PDF Using Streamlit and LLM (LangChain) with Hugging Face API," relevant keywords include Streamlit, PDF text extraction, natural language processing (NLP), large language models (LLMs), Hugging Face API, LangChain, interactive web application, text analysis, question answering, PDF processing, Python programming, machine learning models,

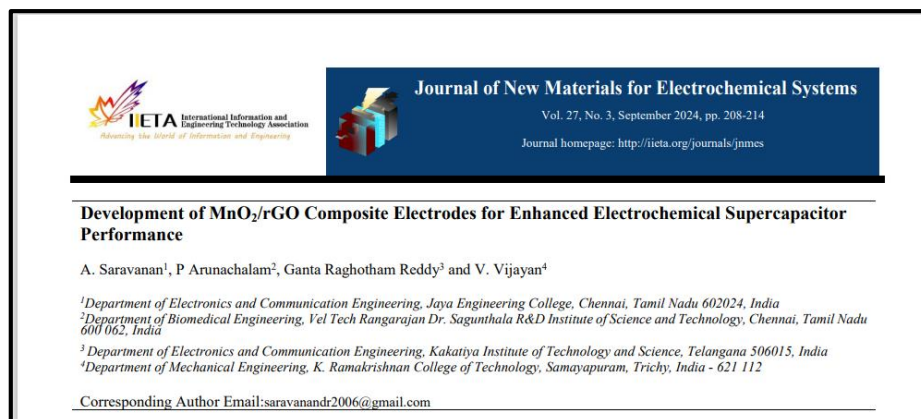
10. Dr. A. Saravanan / ECE : Paper published in the Journal of New Materials for Electrochemical Systems (JNMES) : ISSN of 1480-2422 and an E-ISSN of 2292-1168, indexed in the SCIE database with a 2023 impact factor of 0.9 and a Q4 JCR ranking.

Published jointly with faculty members of other disciplines and other institutions including Veltech.

It is an article on an interdisciplinary topic of Development of MnO₂/rGO Composite Electrodes for Enhanced Electrochemical Supercapacitor Performance.

For viewing the full paper, visit:

<https://iieta.org/journals/jnmes/paper/10.14447/jnmes.v27i3.a06>



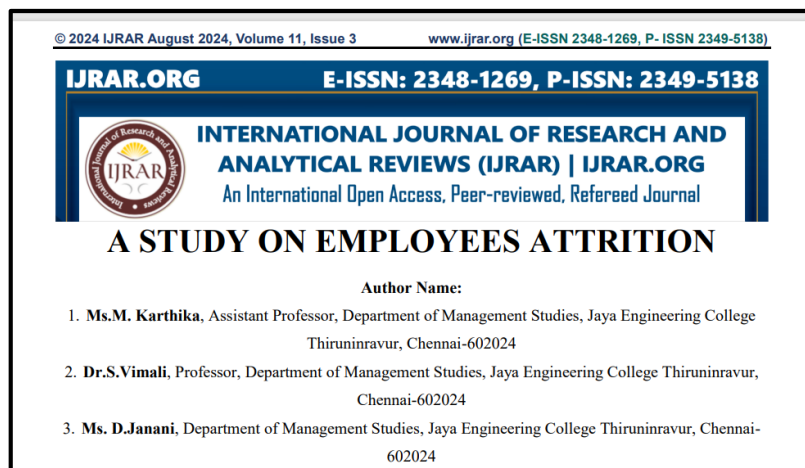
11. MBA Students: 14 papers published in IJRAR:

Based on the final year projects of MBA 2024 passed out batch (i.e. 2nd year MBA), students have published 14 papers (with 7 faculty members) in the INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS (IJRAR) which is a journal listed in UGC CARE with E-ISSN and P-ISSN number.

For viewing the 14 full papers, visit:

<https://ijrar.org/archive.php?vol=11&issue=3>

A sample (out of the 14 papers) is as given below:



12. MCA Students: 49 Papers published: Conference Proceedings (with ISBN Number) National Conference on Advanced Technology in Computer Application (NCATCA – 2024) in association with International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) of 49 research papers by faculty members and students of the Department.

For viewing the 49 full papers, visit:

<https://www.ijrset.com/special-issue-NCATCA-2024>



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IJRSET International Journal of Innovative Research in Science, Engineering and Technology

[ISSN Approved Journal | Impact factor: 8.524 | ESTD: 2012 | Follows UGC CARE Journal Norms and Guidelines]

[Monthly, Peer-Reviewed, Refereed, Scholarly, Multidisciplinary and Open Access Journal] Impact factor 8.524
(Calculated by Google Scholar and Semantic Scholar) AI-Powered Research Tool | Indexing in all Major Database & Metadata, Citation Generator | Digital Object Identifier (DOI)

ABOUT US TOPICS AUTHORS CURRENT ISSUE OCTOBER 2024 IMPACT FACTOR PEER REVIEW INDEXING FAQ

Impact Factor: 8.524 | Author submit manuscript to ijrset@gmail.com | Fast T

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Call for Papers 
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Submission : 31st Dec 2024
Notification : 24 Hours
Publication : 12 to 24 hours
E-Certificates: Immediate

Authors Desk 

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INDEX

| S.No. | Title & Authors | Page No. |
|-------|--|----------|
| 1 | AI Chatbot for Answering FAQs using Machine Learning <i>ABIMANYU T, PROF. DR.D.BALASUBRAMANIAN</i> | 1 |
| 2 | Chatting with PDFS using Streamlit, LLM, and Hugging Face API <i>ARUN M, PROF. DR.D.BALASUBRAMANIAN</i> | 8 |
| 3 | Privacy Preserving Public Auditing for Regenerating-Code-based Cloud Storage <i>ARUN KUMAR V, PROF. DR.D.BALASUBRAMANIAN</i> | 14 |
| 4 | Sign Language Detection and Recognition using Media Pipe and Deep Learning Algorithm <i>CHARITY PEARLIN E J, PROF. DR.D.BALASUBRAMANIAN</i> | 20 |
| 5 | Unique Placement Web Portal for Students of All Colleges and Universities <i>DHAMODHARAN K, ASSISTANT PROF. D.PREMA</i> | 27 |
| 6 | Machine Learning for Sales Prediction in Big Mart <i>GIRIPRASANTH G, PROF. DR.D.BALASUBRAMANIAN</i> | 32 |
| 7 | Android Malware Prediction using Machine Learning Algorithms <i>MITHUN M, ASSISTANT PROF. D.PREMA</i> | 37 |
| 8 | Gender and Age Detection using Machine Learning <i>HARIHARAN J, PROF. DR.D.BALASUBRAMANIAN</i> | 45 |
| 91 | Credit Card Scam Recognition using Machine Learning with GUI Techniques <i>HEMAVATHY K, PROF. DR.D.BALASUBRAMANIAN</i> | 50 |
| 10 | Helmet Detection in Traffic Signals by using Open Computer Vision Techniques <i>JAGASEESH S, PROF. DR.D.BALASUBRAMANIAN</i> | 60 |
| 11 | Crop Recommendation System using Machine Learning <i>JAKRISHNA , PROF.DR.D.BALASUBRAMANIAN, DR.M.SOMASUNDARAM</i> | 67 |
| 12 | AR-based Attendance System using IOT in Education <i>JUDSON DANIEL R, PROF. DR.D.BALASUBRAMANIAN</i> | 76 |
| 13 | A Novel Intrusion Detection Model for Detecting Known and Innovative Cyber Attacks using Convolutional Neural Network <i>KARAN V, PROF. DR.D.BALASUBRAMANIAN</i> | 82 |
| 14 | Cardless ATM Machine using Python <i>KARISHMA KUMARI B, ASSISTANT PROF. D.PREMA</i> | 89 |
| 15 | Credit Card Fraud Detection using Machine Learning <i>KARPAGESWARIM, ASSISTANT PROF. D.PREMA</i> | 95 |
| 16 | Multiple Disease Prediction using Machine Learning <i>KRISHNA KANTH B, PROF. DR.D.BALASUBRAMANIAN</i> | 102 |
| 17 | Execution of Brilliant Security Band for Human Wellbeing <i>LAVANYA S, PROF. DR.D.BALASUBRAMANIAN</i> | 108 |
| 18 | A Broad Assistance on Crisis Circumstance Utilizing Web Application <i>LOKESH RAO M, PROF. DR.D.BALASUBRAMANIAN</i> | 117 |
| 19 | SaaS AI Platform Discovery AI <i>MAGESH B, PROF. DR.D.BALASUBRAMANIAN</i> | 124 |
| 20 | Public Objection by Criminal to Police Headquarters Short a Way Set Casualty <i>MATHAVAMOORTHY R, ASSISTANT PROF. D.PREMA</i> | 128 |
| 21 | Netflix Movie Recommendation System using Machine Learning <i>MATHI PRAKASH J, ASSISTANT PROF. D.PREMA</i> | 135 |

| | | |
|----|--|-----|
| 22 | Paroxysm Detection using Machine Learning <i>MITHUN M, ASSISTANT PROF. D. PREMA</i> | 142 |
| 23 | Mobile App for Online Book Fare and Web Application <i>MUTHU KUMAR P, ASSISTANT PROF. D. PREMA</i> | 148 |
| 24 | Automatic Helmet Violation Detector of Motorecyclists for an Intelligent Transportation System <i>NAVEEN KUMAR S, ASSISTANT PROF. D .PREMA</i> | 154 |
| 25 | Cyber Bullying Detection in Social Networks using NLP and MI Techniques <i>PRADEEP KUMAR S, PROF. DR.D.BALASUBRAMANIAN</i> | 163 |
| 26 | Learning Voyage System <i>PRAVEEN KUMAR S R, ASSISTANT PROF.S. MERLIN REENA</i> | 169 |
| 27 | Smart Placement: A Campus Placement Portal with Predictive Analytics using XGBoost Algorithm <i>PRAVEEN KUMAR SR, ASSISTANT PROF. S. MERLIN REENA, DR.M.SOMASUNDARAM</i> | 173 |
| 28 | Cloud Data Auditing System using Hashing Algorithms <i>PRAVIN SESARIO K, ASSISTANT PROF. S. MERLIN REENA</i> | 184 |
| 29 | Hospital Management System for Patients in Springboot Application <i>RAJKUMAR C, ASSISTANT PROF. S. MERLIN REENA, DR.M.SOMASUNDARAM</i> | 190 |
| 30 | SMS Spam Detection <i>REVATHI G, ASSISTANT PROF. S. MERLIN REENA</i> | 197 |
| 31 | Crime Reporting Manage Online Complaint, FIR & CSR Android Application <i>SAMADHARMAN K S, ASSISTANT PROF. S. MERLIN REENA</i> | 204 |
| 32 | Securing Communication through Intelligent of Image Steganography a Machine Learning Perspective <i>SANDHYA SANTHA KUMARI A, ASSISTANT PROF. S. MERLIN REENA</i> | 209 |
| 33 | Agriculture Yield Prediction using Machine Learning <i>SATHISH KUMAR T, S.MERLIN REENA</i> | 219 |
| 34 | Bio Metric Fingerprint Fusion using Machine Learning <i>SHANTHI T, ASSISTANT PROF. D. BALASUNDARI</i> | 225 |
| 35 | Empowering Farmers through Direct Sales to Clients <i>SIDDHARTHAN C, ASSISTANT PROF. D. BALASUNDARI</i> | 229 |
| 36 | Examining Successful Attribute for Undergraduate Students by Applying Machine Learning <i>SOMASUNDARI M, ASSISTANT PROF.D. BALASUNDARI, DR.M.SOMASUNDARAM</i> | 237 |
| 37 | Robust Reversible Watermarking in Encrypted Image using Python <i>SRINIVASAN R, ASSISTANT PROF.D. BALASUNDARI</i> | 243 |
| 38 | Stress Detection using Galvanic Skin Response (GSR) Controlled by IOT Technology <i>SUBASH K B, ASSISTANT PROF.D. BALASUNDARI</i> | 249 |
| 39 | Heart Disease Prediction using Machine Learning <i>SUGANTHI S R, ASSISTANT PROF.D. BALASUNDARI</i> | 259 |
| 40 | Loan Eligibility Prediction System using Machine Learning <i>R SURYA, ASSISTANT PROF.D.BALASUNDARI</i> | 267 |
| 41 | Early Detection of Chronic Kidney Disease using Machine Learning <i>VALLARASU TK, ASSISTANT PROF.D. BALASUNDARI</i> | 272 |

| | | |
|----|--|-----|
| 42 | Prognosticating Future Requirements for Blended Fuel using Advanced RNN Technique <i>VASANTH R., ASSISTANT PROF.D. BALASUNDARI</i> | 278 |
| 43 | Stock Price Prediction using Machine Learning <i>VINOTH R., ASSISTANT PROF.D. BALASUNDARI</i> | 287 |
| 44 | Interior Design Website with AI Configuration <i>DHANUSHA, PROF. DR.D.BALASUBRAMANIAN</i> | 294 |
| 45 | Strengthening Cyber Resilience: A Comprehensive Java-based Solution for Predicting, Monitoring and Responding to Ransomware Threats across Enterprise Networks <i>NANDHINI K., ASSISTANT PROF. D.PREMA</i> | 299 |
| 46 | NLP based Image Generation using AI <i>SAMUNDEESHWARI T., ASSISTANT PROF.D. BALASUNDARI</i> | 307 |
| 47 | Three Level Password Authentication for Machine Learning <i>SARANYA E., ASSISTANT PROF.S. MERLIN REENA</i> | 318 |
| 48 | SMS Spam Detection using Machine Learning <i>YOKESH N., ASSISTANT PROF.D. BALASUNDARI</i> | 325 |
| 49 | Campus Recruitment System <i>BARATHIRAJ P., PROF. DR.D.BALASUBRAMANIAN</i> | 329 |