

3.4.4

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

Sl. No.	Name of the Teacher	Title of the Book published	Title of the Chapter published	Title of the proceedings of the conference	Name of the conference	National / International	Year and month of publication	ISBN of the Book/Conference Proceeding	Institute of the teacher at the time of publication	Name of the Publisher
1	Dr. B. Siva Nageswara Rao	Sustainable Electronics: Green Technologies and Environmental Impact					Aug-24	978-81-969115-0-8	Narasaraopeta Engineering College	Institute for Innovation and Technology
2	Dr. B. Siva Nageswara Rao		Robotics and Automation: Integration of Electronics for Intelligent Machines				Aug-24	978-81-969115-0-8 9978-81-19762-34-7	Narasaraopeta Engineering College	Institute for Innovation and Technology
3	Dr. B. Siva Nageswara Rao		Data Science For Beginners				Aug-24		Engineering College	PKS Publications
4	Dr. Sk. Nannu Saheb	Fundamentals of Electrical and Electronics Engineering					Apr-25	978-93-6674-840-5	Narasaraopeta Engineering College	Scientific International Publishing House
5	Dr. Md. Javeed Ahammed		Evaluating Economic Benefits of AI- Powered Crash Prevention Technologies"				May-25		Narasaraopeta Engineering College	IGI Global Publisher
6	Dr. Sk. Ebraheem Khaleelulla & Dr. Md. Javeed Ahammed	VISION TRANSFORMER AND ENGINEERING PERSPECTIVE					Jun-25	978-81-986993-8-1	Narasaraopeta Engineering College	RDG Scientific Publications
7	Dr. Shaik Mohammed Jany	Data Science and Analytics					2024-25	978-93-634-8236-4	NEC	Leilam Katte Publications
8	Dr. B. Jhansi Vazram	Machine Learning and Deep Learning :Principles ,Practices and Progress					2024-25	978-93-341-7132-7	NEC	Immortal Publications
9			Integrating Supervised Learning Techniques Cyber Propaganda in Fake News Detection	Proceedings of International Conference on Algorithms in Advanced Artificial Intelligence (ICAAAI-2024)	ICAAAI-2024	International	Dec-24			T & F



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 BABU PAVANKATA SATEESH KUMAR



 Algorithms in Advanced Artificial Intelligence



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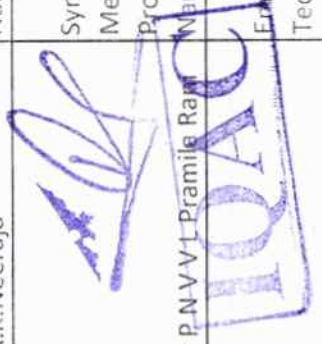
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10	Dr. S.V.N. Sreenivasu, Dr. Sireesha Moturi, CH. Rajani	Algorithms in Advanced Artificial Intelligence	Next-Gen Attendance System		2024 First International Conference on Innovations in Communicati ons, Electrical Engineering	International	23-May-25	9781003641537	NEC	CRC Press
11	Dr. K. Suresh Babu, Dr. Sireesha Moturi, Sk. Khaja Mohiddin Dr. KBasha	Algorithms in Advanced Artificial Intelligence	Web-Based Early Stroke Detection: A Machine Learning Approach with Explainable Insights		2025 First International Conference on Innovations in Communicati ons, Electrical Engineering	International	24-May-25	9781003641538	NEC	CRC Press
12	K.V. Narasimha Reddy, D. Venkata Reddy	Algorithms in Advanced Artificial Intelligence	Unveiling the Power of Classic ML Techniques in Text Classification: A Comparative Approach		2026 First International Conference on Innovations in Communicati ons, Electrical Engineering	International	25-May-25	9781003641539	NEC	CRC Press
13	Dr. M. Sireesha, G. Saranya, Dr. K. Suresh Babu	Algorithms in Advanced Artificial Intelligence	Thyroid Disease Identification Using Machine Learning		2027 First International Conference on Innovations in Communicati ons, Electrical Engineering	International	26-May-25	9781003641540	NEC	CRC Press
14	Dr. Y. Ankireddy	Research Methodology Methods, Approaches & Techniques			AGPG	International	2024	978-81-979803-1-2	NEC	AGPG
15	Dr. Y. Ankireddy	Intellectual Property and Entrepreneurship			RK PUBLISHER S	International	2024	978-93-4865-2-1	NEC	RK PUBLISHERS
16	Dr. Y. Ankireddy	Business Environment			RK PUBLISHER S	International	2024	978-93-4865-2-1	NEC	RK PUBLISHERS


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17	Dr.K.Anil Kumar	Organizational Strategies and Communication in Business			AGPG	International	2024	978-81-979803-9-8	NEC	AGPG
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20	Z.Mohan Rao	Communicative English	Communicative English				2025	978-93-95820- ta Engineering Cillege Autonomous	Engineering Cillege Autonomous	Spectrum Educatio
21	M. Poorna Chandra Rao	Communicative English	Communicative English				2025	978-93-95820- ta Engineering Cillege Autonomous	Engineering Cillege Autonomous	Spectrum Educatio
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23	DR.K.Neeraja	A bridging science and engineering of Nanotechnology	The Physics of Engineering				2025	978-81-977678- Narasaraope ta Engineering Cillege Autonomous	Narasaraope ta Engineering Cillege Autonomous	Infinite Research
24	Dr P.N.V.V.Pramile Rao	Synthesis Methods and Properties of Nanomaterials	Synthesis Methods and Properties of Nanomaterials				2025	978-93-488897- Narasaraope ta Engineering Cillege Autonomous	Narasaraope ta Engineering Cillege Autonomous	Infinite Research
25	Sk Alla Nazeer	Emerging Technologies for Plastic Waste Breakdown	Emerging Technologies for Plastic Waste Breakdown					978-93-48897- Narasaraope ta Engineering Cillege Autonomous	Narasaraope ta Engineering Cillege Autonomous	Infinite Research



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34	Dr SK Mohiddin Shaw	Linear Algebra and Calculus	Linear Algebra and Calculus						2025	978-81-94878-	Engineering College Autonomous	Spectrum Educatio

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36	Dr Ch.Maheswari	Linear Algebra and Calculus	Linear Algebra and Calculus					2025	978-81-948784	Engineering Cillege Autonomous	Spectrum Educatio
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Intellectual Property and Entrepreneurship



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Anil N. Khade, is a distinguished academic with extensive experience in research methodology. With a profound dedication to education and a strong background in academic research, Mr. Khade has contributed significantly to the field through his teaching, research, and mentorship. His expertise encompasses various aspects of research methodology, from qualitative and quantitative analysis to advanced data interpretation techniques. Mr. Khade has authored several scholarly articles in reputed journals and has been an active participant in numerous national and international conferences, where he has presented his research findings. His dedication to advancing knowledge in his field is evident in his commitment to continuous learning and his passion for guiding students and fellow researchers.

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Dr. Maria Afzal, a distinguished academic with a Ph.D. in Management from Jamia Millia Islamia, Delhi, brings expertise in Organizational Strategies, HR Analytics, Artificial Intelligence, and Authentic Leadership. She has contributed extensively to national and international journals, including publications with Springer and UGC CARE-listed journals. Dr. Afzal has presented her research at renowned conferences across the USA and India and serves as a reviewer for esteemed publishers such as Sage and Emerald Insight. With a rich background in teaching at institutions like Jamia Millia Islamia University and Police DAV Public School, Hyderabad, she now serves as an Adjunct Faculty and Business Mentor in Punjab Agricultural University (PAU). A UGC Junior Research Fellowship (JRF) awardee, her research spans organizational strategies, women empowerment, and decision making in digital environments.

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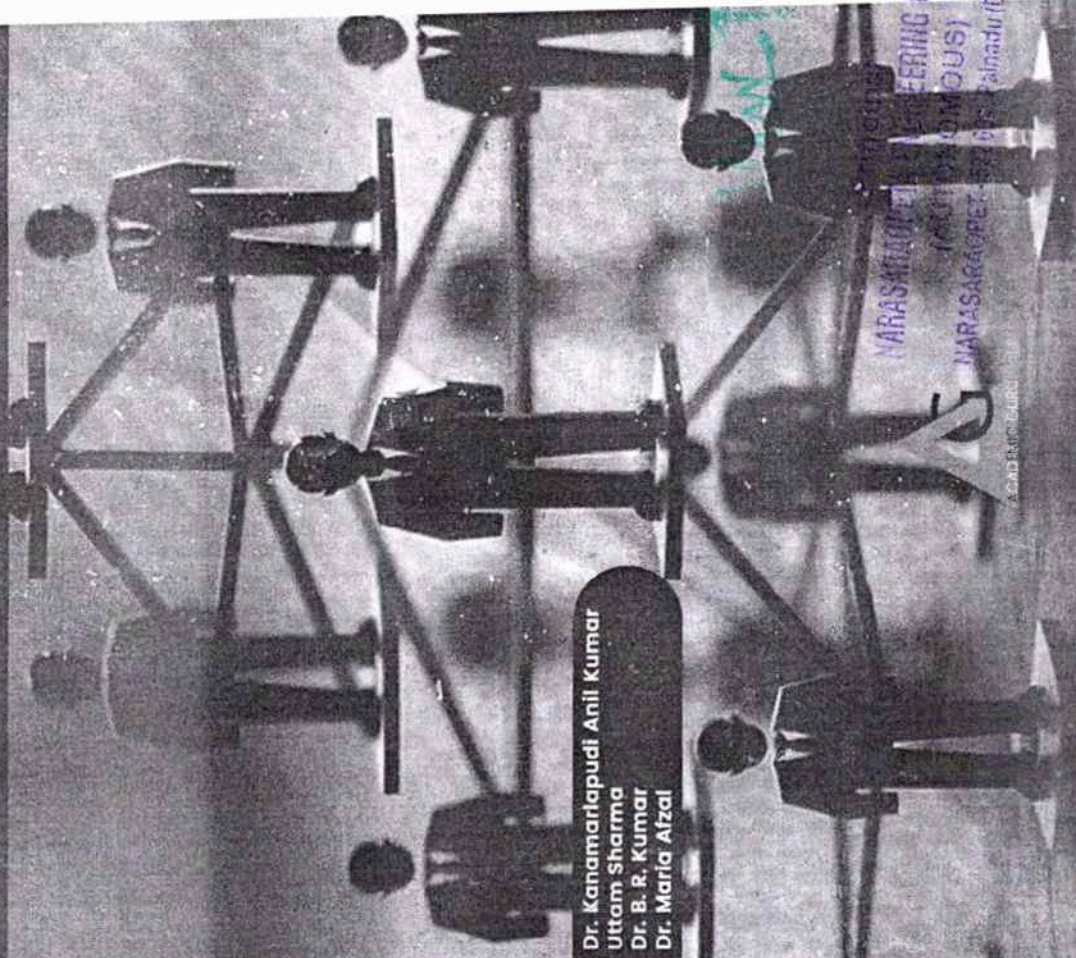
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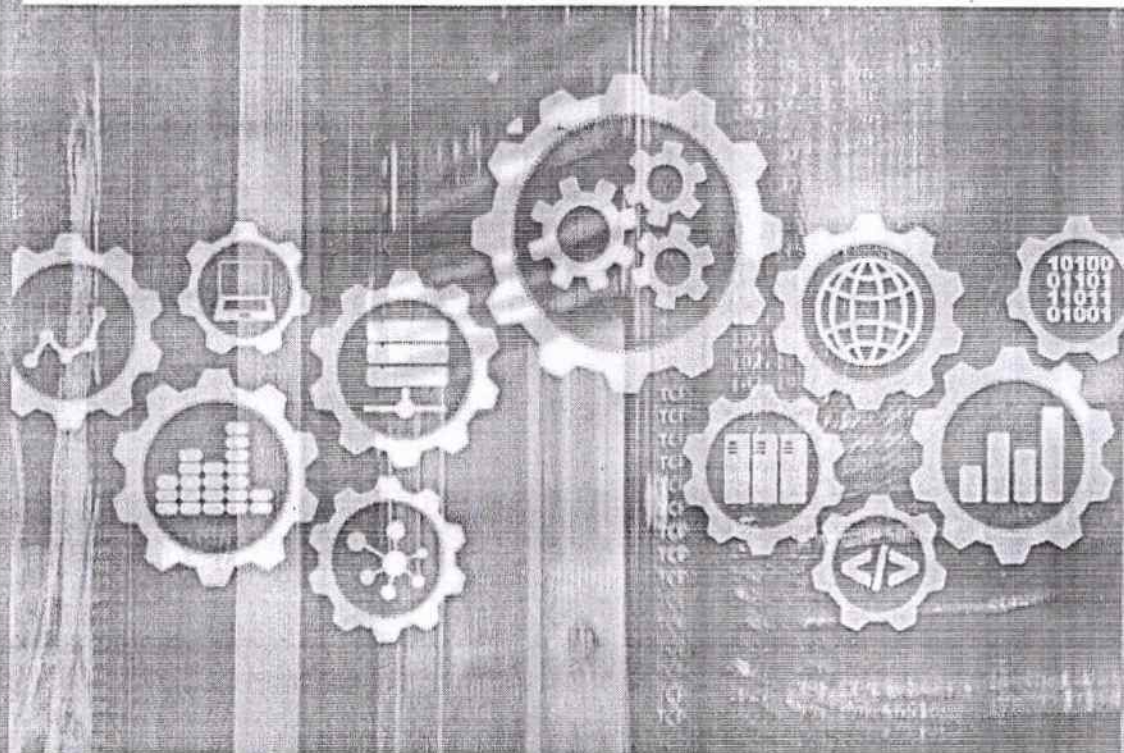
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Thyroid Disease Identification Using Machine Learning

Authors G Saranya, K Suresh Babu, M Sireesha, G Anuradha, K Chandrika, Y Keerthi

Publication date 2025/5/23

Book Algorithms in Advanced Artificial Intelligence

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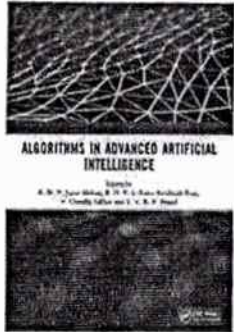
Description Thyroid diseases, particularly hyperthyroidism and hypothyroidism, are increasingly prevalent and pose significant health risks if not diagnosed early. This study shows the use of different ML algorithms for identification of thyroid gland issues. The research employs five classifiers—LR, DT, RF, SVC and KNN to analyse a dataset of 3772 patients. The data preparation process includes removing unwanted data, unclear data, irrelevant data, selection of features, splitting the data to optimize the performance of these models, focusing on the secretion of hormones like Thyroid stimulating Hormone (TSH), Triiodothyronine (T3), and Thyroxine (T4). When the thyroid gland malfunctions, it can lead to either hyperthyroidism, characterized by excessive hormone production, or it causes overproduction or insufficient hormone production can result in serious health problems. The DT and RF algorithm show better results ...

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Chapter



Unveiling the Power of Classic ML Techniques in Text Classification: A Comparative Approach

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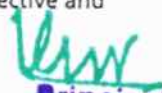
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First Published	2025
Imprint	CRC Press
Pages	6
eBook ISBN	9781003641537

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ABSTRACT

Text data preprocessing plays a crucial role in machine learning, as it transforms unstructured content into a structured format suitable for model training. This research enhances the effectiveness of several well-known machine learning algorithms, including Gaussian Naive Bayes (GNB), Multi-Layer Perceptron (MLP), Decision Tree (DTC), Random Forest (RFC), Support Vector Machine (SVM), Logistic Regression (LRC), and K-Nearest Neighbors (KNN). We demonstrate the use of these models on four diverse datasets, focusing on improving key performance indicators such as Correctness (accuracy), Exactness (precision), Sensitivity (recall), and Harmonic Score (F1-score). The preprocessing involves heavy cleaning and transformation, which is said to be quite crucial in order to change model effectiveness and efficiency. The experimental results have demonstrated massive improvements within classifier performance and thus proved that thorough model tuning and preprocessing may lead to scalable and efficient text classification systems. This proves to be effective and adaptable in various application domains, suitable for a wide variety of text classification tasks.



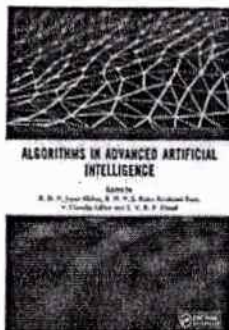

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Chapter



Web-Based Early Stroke Detection: A Machine Learning Approach with Explainable Insights

By Kunda Suresh Babu (/search?contributorName=Kunda Suresh Babu&contributorRole=author&redirectFromPDP=true&context=ubx), Mahesh Babu Parchuri (/search?contributorName=Mahesh Babu Parchuri&contributorRole=author&redirectFromPDP=true&context=ubx), Aswiniduth Muthireddy (/search?contributorName=Aswiniduth Muthireddy&contributorRole=author&redirectFromPDP=true&context=ubx), Lakshmi Vara Prasad Gurram (/search?contributorName=Lakshmi Vara Prasad Gurram&contributorRole=author&redirectFromPDP=true&context=ubx), Naveen Satya Thallam (/search?contributorName=Naveen Satya Thallam&contributorRole=author&redirectFromPDP=true&context=ubx), Shaik Khaja Mohiddin Basha (/search?contributorName=Shaik Khaja Mohiddin Basha&contributorRole=author&redirectFromPDP=true&context=ubx), Sireesha Moturi (/search?contributorName=Sireesha Moturi&contributorRole=author&redirectFromPDP=true&context=ubx)

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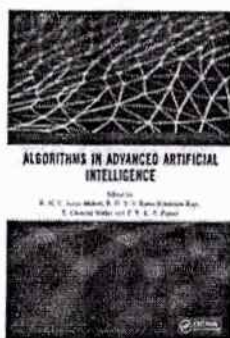
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ABSTRACT

Stroke is a leading cause of disability and mortality worldwide, underscoring the need for effective early detection methods. This study introduces a web-based predictive system leveraging machine learning to assess individual stroke risk. Employing models such as XGBoost, Random Forest, and k-Nearest Neighbors (KNN), we trained on a balanced dataset incorporating crucial health features, including age, hypertension, and glucose levels. Hyperparameter tuning was implemented to optimize model performance, leading to the selection of an XGBoost model that achieved an accuracy of 93.2%, surpassing other tested algorithms. To enhance model interpretability, we applied SHAP (Shapley Additive Explanations) and LIME (Local Interpretable Model-agnostic Explanations), which provide valuable insights into feature importance and transparency in predictions. This enables healthcare providers to identify key factors in stroke risk assessment, such as age and blood pressure, with greater confidence and clarity. Data imbalance, a common issue in stroke prediction, was addressed using Synthetic Minority Over-Sampling Technique (SMOTE) to ensure that the model trained fairly on both stroke and non-stroke cases. This research not only highlights the feasibility of machine learning in predictive healthcare

Chapter



Next-Gen Attendance System

By S. V. N. Sreenivasu (/search?contributorName=S. V. N.

Sreenivasu&contributorRole=author&redirectFromPDP=true&context=ubx), Ch. Rajani (/search?contributorName=Ch. Rajani&contributorRole=author&redirectFromPDP=true&context=ubx), Bogyam Indu (/search?contributorName=Bogyam Indu&contributorRole=author&redirectFromPDP=true&context=ubx), Thumu Tejawini (/search?contributorName=Thumu Tejawini&contributorRole=author&redirectFromPDP=true&context=ubx), Kongara Abhinaya (/search?contributorName=Kongara Abhinaya&contributorRole=author&redirectFromPDP=true&context=ubx), Sireesha Moturi (/search?contributorName=Sireesha Moturi&contributorRole=author&redirectFromPDP=true&context=ubx)

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ABSTRACT

The Next-Gen Attendance System is an automated advanced solution in the real-time tracking of attendance using deep learning models to streamline and enhance the process. With a wide capability of using YOLOv8 for very accurate face detection, this system offers three flexible modes for attendance capture: webcam live feeds, pre-recorded videos, or static images. These individual detected faces are uniquely labeled, and no same face gets recorded more than once in multiple sections. The system also makes use of CNN models to optimize facial feature and eye identification, even under dynamic environments. It significantly reduces the amount of manual effort and human error that is possible in attendance monitoring. The records are kept in secure easy to access excel sheets that uniquely identify each user. This solution has been designed for modern classrooms and pave the way for seamless integration of AI in attendance management systems within educational institutions.

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**Dr. RVSV Prasad
Dr. B.Jhansi Vazram
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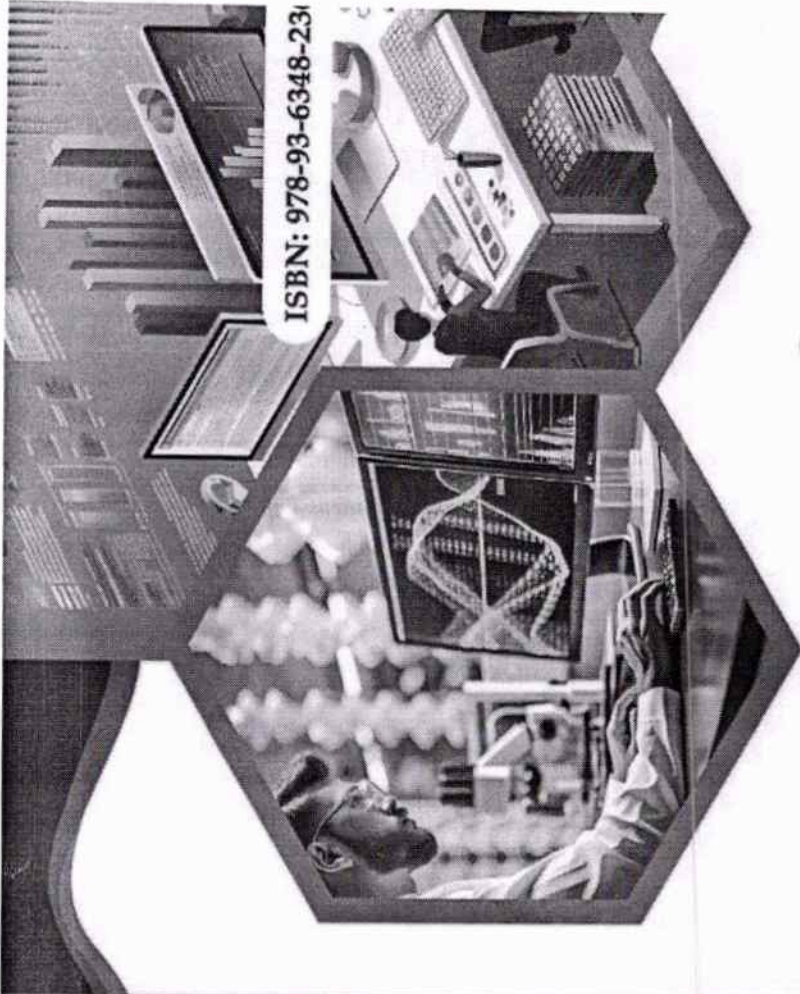
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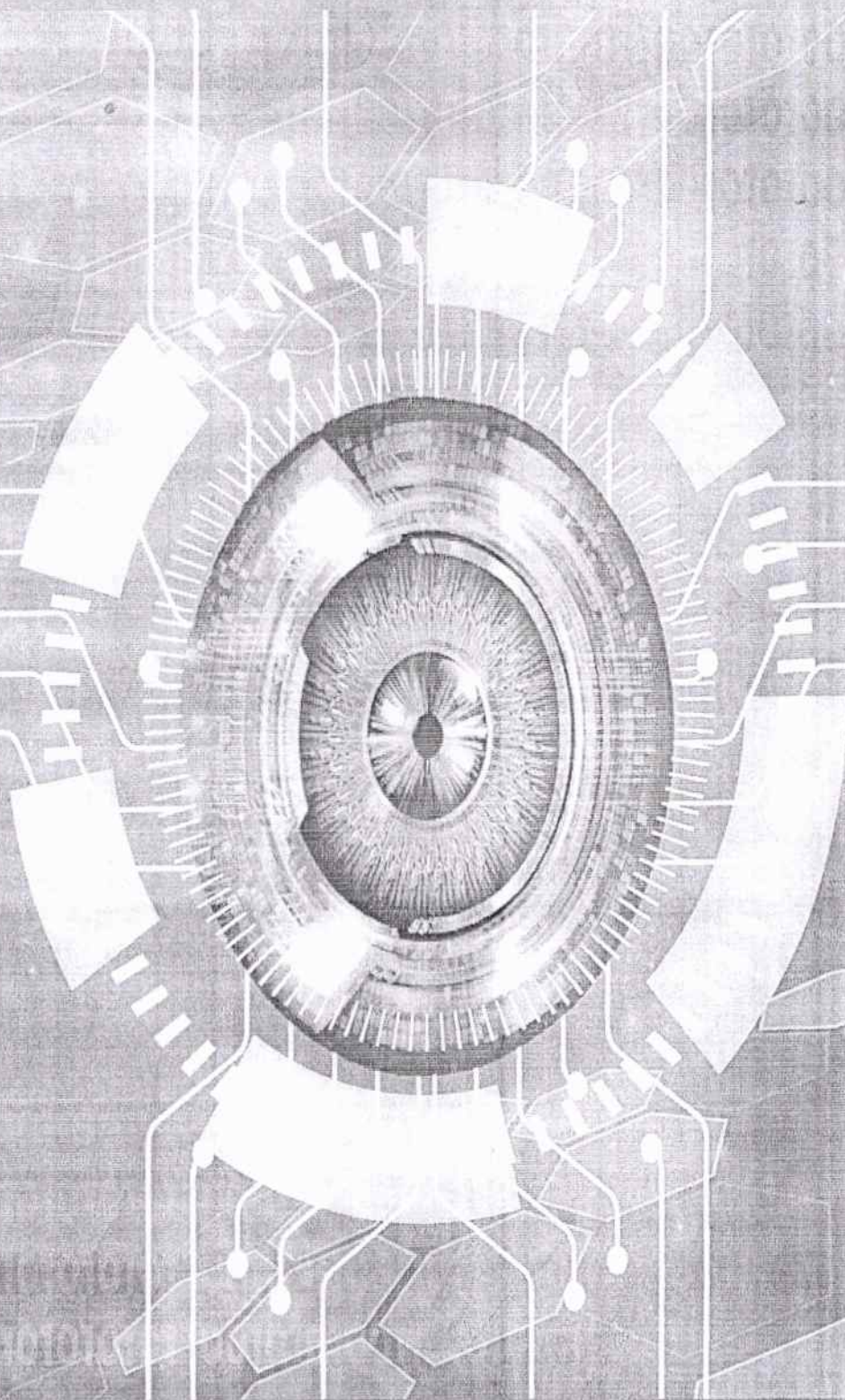
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Chapter 16

Evaluating Economic Benefits of AI-Powered Crash Prevention Technologies

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ABSTRACT

Economic impact of AI intervention in crash prevention systems through the use of computer simulations using digital twins done with Siemens NX and Simcenter. The research shows how the technology can virtually explore several angles of the crash and fine-tune its AI algorithms, as well as estimate practical risks and cost factors. Trial outcomes indicate an overall collision rate reduction by 40%, 30% lower medical expense, and 25% lower cost of vehicle repair in comparison to conventional as well as AI-based approaches separately. Further, this approach retained 85% of crash prediction accuracy besides cutting down false positive by 15% hence, increasing system credibility. The effectiveness of Digital Twins for scenario testing and cost calculation is underlined, thus the potential of the proposed approach for the future development of crash prevention systems is scalable. It is ascertained in the research that simulation-based assessments offer a stable paradigm for comparing AI-driven safety features in automobiles hence earning better road safety and economic impacts.

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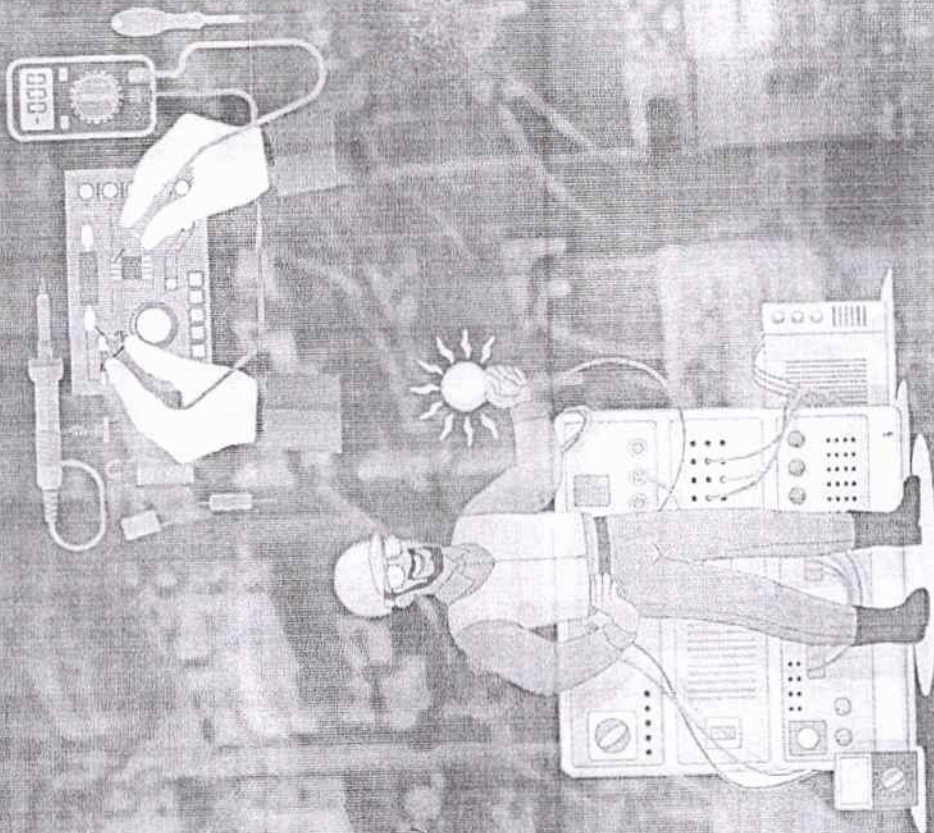
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Fundamentals of ELECTRICAL AND ELECTRONICS ENGINEERING



Dr. M. Sreedhar
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