



Nutan Maharashtra Vidya Prasarak Mandal's (NMVPM's)
**NUTAN MAHARASHTRA INSTITUTE OF
ENGINEERING AND TECHNOLOGY (NMIET)**
An Autonomous Institute from 2025-26
Under Administrative Support – Pimpri Chinchwad Education Trust (PCET)



Department of Computer Science and Engineering (Artificial Intelligence)

Research & Development

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B. Summary Sheet

Sr. No.	Research Category	2022	2023	2024	2025	2026	Total
1	SCI/ WOS Publications	1	1	1	3	0	6
2	Scopus Journal Articles	2	2	8	6	0	18
3	Scopus Conference Papers	1	0	8	10	8	27
4	Scopus Books/ Chapters	0	0	1	0	0	1
5	Patents	0	2	1	0	0	3
6	Funded Research Projects	0	0	0	0	0	0
7	Consultancy Projects	0	0	0	1	0	1
8	Research MoUs	0	0	0	0	0	0
9	International Conferences Organized	0	0	0	0	0	0

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<p>Department of Computer Science and Engineering (Artificial Intelligence)</p>		

SCI / WOS Publications:

Year: 2025

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Prashant Ahire	AI-driven detection and classification of diabetic retinopathy stages using EfficientNetB0	Springer Nature
2	Dr. Dhanashree Kulkarni	Gray Wolf-Based Clustering for Enhanced Energy Efficiency in Wireless Sensor Networks	International Journal of Communication Systems
3	Mrs. Sarita Charkha	Transfer learning optimization in medical imaging enhancing diagnostic accuracy with limited data sets	Journal of Information and Optimization Sciences

Year: 2024

Sl. No.	Faculty Name	Title	Journal Name
1	Mrs. Seema Mhalungkar	A brief survey on human activity recognition using motor imagery of EEG signals	Electromagnetic Biology and Medicine

Year: 2023

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Sagar Shinde	Compiler Optimization Prediction with New Self-Improved Optimization Model	International Journal of Advanced Computer Science and Applications(IJACSA)

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Year: 2022

Sl. No.	Faculty Name	Title	Journal Name
1	2022	Dr. Sagar Shinde	A Novel Prediction Model for Compiler Optimization with Hybrid Meta-Heuristic Optimization Algorithm

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<p>Department of Computer Science and Engineering (Artificial Intelligence)</p>		

Scopus Journal Articles:

Year: 2025

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Prashant Ahire	AI-driven detection and classification of diabetic retinopathy stages using EfficientNetB0	Dr. Prashant Ahire
2	Dr. Sagar Shinde	Adversarial measurements for convolutional neural network-based energy theft detection model in smart grid	e-Prime - Advances in Electrical Engineering, Electronics and Energy
3	Dr. Sagar Shinde	Human activity recognition using smart phone for physical activity analysis	Multidisciplinary Science Journal
4	Dr. Sagar Shinde	Device-to-Device (D2D) Wireless Communication Using Blockchain and Onion Routing	International Journal of Computer Networks and Applications (IJCNA)
5	Dr. Dhanashree Kulkarni	Gray Wolf-Based Clustering for Enhanced Energy Efficiency in Wireless Sensor Networks	International Journal of Communication Systems
6	Dr. Dhanashree Kulkarni	Grey Wolf Optimization for Resource Allocation in RAN Slicing for Heterogeneous Requirements	Multidisciplinary Science Journal

Year: 2024

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Sagar Shinde	Customer behavioural content recommendation system using decision tree and genetic algorithm for online shopping websites	Multidisciplinary Science Journal



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2	Dr. Sagar Shinde	Emotion Identification using EEG Signal with Reduced Electrodes and Time Frequency Parameters	International Journal of Performability Engineering
3	Dr. Sagar Shinde	Soft computing approach for feature extraction of palm biometric	Multidisciplinary Science Journal
4	Dr. Sagar Shinde	A Comprehensive Framework for Facial Emotion Detection using Deep Learning	International Journal of Performability Engineering
5	Mrs. Sarita Charkha	Advancements in Cyclostationary Technique for Cognitive Radio: An In-Depth Examination and Evaluation	International Journal of Intelligent Systems And Applications In Engineering
6	Mrs. Sarita Charkha	IoT-Based Smart Poultry Farm Monitoring and Controlling Using Raspberry Pi	International Journal of Intelligent Systems And Applications In Engineering
7	Mrs. Seema Mhalungkar	A brief survey on human activity recognition using motor imagery of EEG signals	Electromagnetic Biology and Medicine
8	Mrs. Seema Mhalungkar	QFMNet: Quantum fusion maxout network for brain activity detection using motor imagery of EEG signals	SAGE Journal

Year: 2023

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Sagar Shinde	Lightweight RNN-Based Model for Adaptive Time Series Forecasting with Concept Drift Detection in Smart Homes	JESA Journals
2	Dr. Sagar Shinde	Breaking the silence: Innovation in wake word activation	Multidisciplinary Science Journal

	<p>Nutan Maharashtra Vidya Prasarak Mandal's (NMVPM's) NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY (NMIET) An Autonomous Institute from 2025-26 Under Administrative Support – Pimpri Chinchwad Education Trust (PCET)</p>	
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Year: 2022

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Sagar Shinde	Emotion Recognition Based On Eeg Features With Various Brain Regions	Indian Journal of Computer Science and Engineering
2	Dr. Sagar Shinde	A Novel Prediction Model for Compiler Optimization with Hybrid Meta-Heuristic Optimization Algorithm	International Journal of Advanced Computer Science and Applications(IJACSA)

	<p>Nutan Maharashtra Vidya Prasarak Mandal's (NMVPM's) NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY (NMIET) An Autonomous Institute from 2025-26 Under Administrative Support – Pimpri Chinchwad Education Trust (PCET)</p>	
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Scopus Conference Papers:

Year: 2026

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Sagar Shinde	Adversarial Attack on Deep Learning-Based Electricity Theft Detection Model	International Conference on Information and Communication Technology for Intelligent Systems
2	Dr. Sagar Shinde	Dynamic Price Prediction of Pre-Owned Automobiles Using Machine Learning (ML)	International Conference on Information and Communication Technology for Intelligent Systems
3	Dr. Sagar Shinde	Intelligent Advertisement Deployment and Distribution Engine	International Conference on Information and Communication Technology for Intelligent Systems
4	Dr. Sagar Shinde	Optimization of Limitations and Reduction of Hallucination in Llm Using Rag: A Performancedriven Framework	International Conference on Information and Communication Technology for Intelligent Systems
5	Dr. Sagar Shinde	Real Time Dynamic Sign Language Recognition System with LLM-Based Sentence Formation	International Conference on Information and Communication Technology for Intelligent Systems
6	Dr. Sagar Shinde	Energy Conservation in Railway Tunnels	International Conference on Information and Communication Technology for Intelligent Systems
7	Mrs. Dipika Paranjape	Real-Time Human Fall Detection through Motion Tracking and Shape Recognition	2025 9th International Conference on Computing, Communication, Control and Automation (ICCCBEA)

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8	Mr. Vaibhav Suryawanshi	CryptoMap AI:-An AI Powered Solution for Mapping Cryptocurrency Transactions to Their Final Destinations	2025 9th International Conference on Computing, Communication, Control and Automation (ICCCBEA)
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Year: 2025

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Sagar Shinde	EEG signals-based identification of criminal psychological emotion using CNN classifier	International Conference on Manufacturing, Material Science And Engineering
2	Dr. Sagar Shinde	Swift -AI approach for AI-Generated lyrics, portraits, and Avatar dance imitation	AIP Conference Proceedings
3	Dr. Sagar Shinde	Ai-Powered Food Spoilage Detection Using Image Analysis	3rd IEEE International Conference on Networks, Multimedia and Information Technology, NMITCON 2025
4	Dr. Sagar Shinde	AI-Driven Traffic Dynamics: Enhancing Flow and Reducing Congestion: Review	3rd IEEE International Conference on Networks, Multimedia and Information Technology, NMITCON 2025
5	Dr. Sagar Shinde	Human Activity Recognition Using LSTM	International Conference on Joint Innovations In Sustainable Engineering, Project Management And New Transformations In Computing And Communication
6	Dr. Sagar Shinde	AdGenius: An AI-Powered Platform for Ad Deployment and Distribution	3rd IEEE International Conference on Networks, Multimedia and Information Technology, NMITCON 2025

	<p>Nutan Maharashtra Vidya Prasarak Mandal's (NMVPM's) NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY (NMIET) An Autonomous Institute from 2025-26 Under Administrative Support – Pimpri Chinchwad Education Trust (PCET)</p>	
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7	Dr. Sagar Shinde	Intelligent Advertisement Deployment and Distribution Engine	2025 International Conference on Applications of Machine Intelligence and Data Analytics (ICAMIDA)
	Dr. Sagar Shinde	Real Time Dynamic Sign Language Recognition System with LLM-Based Sentence Formation	2025 5th Asian Conference on Innovation in Technology (ASIANCON)
9	Mrs. Priyanka Vyas	Vision Transformer-Based Fault Diagnosis for Solar Panels Using Visible Image Dataset	7th International Conference on Energy, Power and Environment, ICEPE 2025
10	Mrs. Priyanka Vyas	Advancing Solar Panel Fault Detection: A Comparative Study of Deep Learning Models	ESIC 2025 - 5th International Conference on Emerging Systems and Intelligent Computing, Proceedings

Year: 2024

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Sagar Shinde	Abortion Detection and Monitoring for Empowering Equality Through the Integration of Biometric and Artificial Intelligence	International Conference on Nonlinear Dynamics and Applications, 2024
2	Dr. Sagar Shinde	Enhancing Secure Data Transfer In Wireless Networks Using Onion Routing And Blockchain Technology	2024 Global Conference on Communications and Information Technologies (GCCIT)
3	Dr. Sagar Shinde	LlaMA2 and Django Web Application Approach for Simplifying Table Parsing: Review	International Conference on Information and Communication Technology for Intelligent Systems
4	Dr. Sagar Shinde	Secure and Efficient Web Services Recommendations using Data Science Techniques	2024 5th International Conference for Emerging Technology (INCET)

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5	Dr. Sagar Shinde	Image Processing in Toxicology: A Systematic Review	International Conference on Science, Engineering Management and Information Technology
6	Dr. Sagar Shinde	Implementation of Hybrid Filtering for the Automatic Recommendations of Web Services	2024 5th International Conference for Emerging Technology (INCET) Karnataka, India.
7	Dr. Sagar Shinde	Simplifying Table Parsing using TAPAS API and Django web Application: Review	IEEE 9th International Conference for Convergence in Technology (I2CT)
8	Mr. Vaibhav Suryawanshi	Sales Forecast Prediction Using Machine Learning	ISML 2024 - Intelligent Systems and Machine Learning Conference

Year: 2022

Sl. No.	Faculty Name	Title	Journal Name
1	Dr. Sagar Shinde	Math Accessibility for Blind People in Society Using Machine Learning	International Conference on Intelligent Computing and Control Systems (ICICCS)

	<p>Nutan Maharashtra Vidya Prasarak Mandal's (NMVPM's) NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY (NMIET) An Autonomous Institute from 2025-26 Under Administrative Support – Pimpri Chinchwad Education Trust (PCET)</p>	
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Scopus Books/ Chapters:

Sl. No.	Year	Faculty Name	Title	Journal Name
1	2024	Dr. Sagar Shinde	Terror attacks forecast using machine learning and neo4j sandbox: A review	Metaheuristics for Enterprise Data Intelligence



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Patents

Sr. No.	Applicants Name	Registered Domain	Title	Year of application	Patent Number	Remark
1	Dr. Ashwini Shinde Mrs. Priyanka Vyas Mrs. Komal Rajgude	Electronics and Mechanical Engineering	Design Patent (Sewage Treatment Machine)	2023	399205-001	Grant
02	Dr. Ashwini Shinde Mrs. Priyanka Vyas Mrs. Dipika Paranjape Dr. Deepali Bongulwar	Electronics and Mechanical Engineering	Utility Patent (Artificial Intelligence based Urban Sewage Management System with Real Time Monitoring and Damage Repairing)	2023	202321084969	Waiting for Examination
3	Dr. Sagar Shinde	Artificial Intelligence	Patent (Cloud and Automation Approach for Energy Conservation in Railway Tunnel)	2024	202421068479	Waiting for Examination



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C. Staff wise Google Scholar Profile Link with Citations

Sl. No.	Faculty Name	Google Scholar Link	Orchid Id	Citations				
				2022	2023	2024	2025	2026
1	Dr. Prashant Ahire	https://scholar.google.com/citations?hl=en&user=-_kC81cAAAAJ	0000-0002-8101-7087	15	17	17	47	7
2	Dr. Sagar Shinde	https://scholar.google.com/citations?hl=en&user=KHdi8-8AAAAJ	0000-0003-1173-0511	37	49	86	72	5
3	Dr. Dhanashree Kulkarni	https://scholar.google.com/citations?hl=en&user=djOUuKAAAAJ	0000-0002-2590-2604	0	2	4	9	3
4	Mrs. Priyanka Vyas	https://scholar.google.com/citations?hl=en&user=MB_Q4KsAAAAJ	0009-0001-8245-5855	2	2	9	8	0
5	Mr. Vaibhav Sauryawanshi	https://scholar.google.com/citations?hl=en&user=kvxlqSgAAAAJ	0000-0003-1479-9282	0	6	65	17	2
6	Mrs. Dipika Paranjape	https://scholar.google.com/citations?hl=en&user=30xLVIoAAAAJ&view_op=list_works&sortby=pubdate	0009-0006-2037-6197	1	0	2	2	0
7	Mrs. Sarita Charkha	https://scholar.google.com/citations?hl=en&user=JCUB2IoAAAAJ	0009-0001-9962-7510	0	0	6	5	0
8	Mrs. Bhargavi Dalal	https://scholar.google.com/citations?hl=en&user=8cBJ4U0AAAAJ	0009-0002-3496-0475	2	6	13	5	0
9	Mrs. Seema Mhalungkar	https://scholar.google.com/citations?hl=en&authuser=1&user=sgAPVeYAAAAJ	0009-0005-7044-6563	0	0	0	3	1
10	Mrs. Ritu Shrivastava	https://scholar.google.com/citations?hl=en&user=8cBJ4U0AAAAJ	0009-0004-1383-8344	0	0	0	0	0

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D. Staff wise Google Scholar Profile Link with Paper Count

Sl. No.	Faculty Name	Google Scholar Link	Google Scholar Paper Count				
			2022	2023	2024	2025	2026
1	Dr. Prashant Ahire	https://scholar.google.com/citations?hl=en&user=-_kC81cAAAAJ	0	5	7	9	2
2	Dr. Sagar Shinde	https://scholar.google.com/citations?hl=en&user=KHdi8-8AAAAJ	8	11	14	18	1
3	Dr. Dhanashree Kulkarni	https://scholar.google.com/citations?hl=en&user=_djQUukAAAAJ	0	1	3	3	0
4	Mrs. Priyanka Vyas	https://scholar.google.com/citations?hl=en&user=_MB_Q4KsAAAAJ	0	2	0	3	0
5	Mr. Vaibhav Sauryawanshi	https://scholar.google.com/citations?hl=en&user=_kvxlqSgAAAAJ	1	1	1	1	0
6	Mrs. Dipika Paranjape	https://scholar.google.com/citations?hl=en&user=_30xLVIoAAAAJ&view_op=list_works&sortby=pubdate	1	2	1	1	0
7	Mrs. Sarita Charkha	https://scholar.google.com/citations?hl=en&user=_JCUB2IoAAAAJ	0	1	3	1	0
8	Mrs. Bhargavi Dalal	https://scholar.google.com/citations?hl=en&user=_8cBJ4U0AAAAJ	0	0	4	0	0
9	Mrs. Seema Mhalungkar	https://scholar.google.com/citations?hl=en&authuser=1&user=sgAPVeYAAAAJ	3	0	2	1	1
10	Mrs. Ritu Shrivastava	https://scholar.google.com/citations?hl=en&user=_bBIWNZQAAAAJ	0	0	0	0	0

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E. Staff wise Scopus Profile




Scopus



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•  [0000-0002-8101-7087](#) [↗](#)

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Article • *Open access*

Distributed two phase intrusion detection system using machine learning techniques and underlying big data storage and processing architecture-HDFS
Jadhav, A.D., Pellakuri, V., Ahire, P.G., Chaugule, A.A., Tiwari, H.U.

3

Citations

Inteligencia Artificial, 2025, 28(76), pp. 124–148

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Article • *Open access*

AI-driven detection and classification of diabetic retinopathy stages using EfficientNetB0

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Citations

Dharrao, D., Dharrao, M., Patil, S., ... Ahire, P., Dongre, Y. Discover Applied Sciences, 2025, 7(12), 1400

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Book Chapter

Ahire, Prashant G.

Beyond Traditional Testing: Reimagining Assessment and Evaluation Through Inclusive Design and Digital Innovation

0


Citations

Gupta, D., Siddi, S., Jadeja, K., ... Vijayavadivu, V., Ahire, P.

Innovating Assessment and Evaluation in Higher Education Inclusive Practices and Technological Advancements, 2025, pp. 1–40

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Book Chapter

The potential of generative AI in drug development

Deepak Gupta, Sudhakar, R., Mujawar, S.S., ... Ahire, P., Gupta, K. Applications of Artificial Intelligence in Pharmaceuticals, 2025, pp. 125–156

2

Citations

Show abstract Full text Related documents

Conference Paper

Towards Privacy-Preserving AI: Exploring Federated Learning Frameworks and Datasets

Vasekar, V.G., Ahire, P.

2025 9th International Conference on Computing Communication Control and Automation Icccbca 2025, 2025

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Conference Paper

AI-Driven Cloud Resource Optimization: An in-Depth Analysis

Tajane, K., Ahire, P., Pitale, R.

2025 9th International Conference on Computing Communication Control and Automation Icccbca 2025, 2025



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Conference Paper

Graph Coloring with Approximation Ratios: A Survey of Performance Bounds and Open Problems

Pitale, R., Ahire, P., Tajane, K.

2025 9th International Conference on Computing Communication Control and Automation Icccbea 2025, 2025

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Conference Paper

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Securing the Chain: Machine Learning Powered Defense Against Blockchain

Citations

Cyberattacks

Ahire, Prashant G.

Parulekar, S., Jaiswal, S., Vishwakarma, S., Hiwale, M., Ahire, P.

2025 9th International Conference on Computing Communication Control and Automation Icccbca 2025, 2025

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Conference Paper

UAV Network Performance Optimization Using Data Analytics and Visualization

Vaidya, M., Dharrao, M., Ahire, P., ... Agarwal, A., Patil, R.

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2025 9th International Conference on Computing Communication Control and Automation Icccbca 2025, 2025

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Conference Paper

Approximation Meets Quantum: A Parameterized Framework for Large-Scale Graph Coloring

Pitale, R., Tajane, K., Ahire, P.G., ... Salunkhe, K., Shinde, S.

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2025 5th Asian Conference on Innovation in Technology Asiancon 2025, 2025

Citations

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Conference Paper

Load Balancing Strategies in Multi-Cloud Environments: Security and Network Considerations

Pitale, R., Tajane, K., Ahire, P., ... Salve, V., Walzade, A.

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2025 9th International Conference on Computing Communication Control and Automation Icccbca 2025, 2025

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Article • *Open access*

Real-Time
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Learning-

Driven Surveillance with Spatiotemporal Feature Extraction for Detection of Anomalous Human Behavior Across Dynamic Environments

Pangavhane, M., Patil, R., Bharati, R., ... Rahane, W., Dharrao, D.

International Journal of Safety and Security Engineering, 2025, 15(1), pp. 105–111

6

Citations

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Article • *Open access*

An adaptive methodology based on predictive deep learning and context aware clustering for electricity power usage mining and optimization at different granularity levels

7

Citations

Patil, P.D., Patil, R., Ahire, P., Bharati, R., Dongre, Y.

E Prime Advances in Electrical Engineering Electronics and Energy, 2024, 8, 100628

[Ahire, Prashant G.](#)

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Article

CAC-WOA: context aware clustering with whale optimization algorithm for knowledge discovery from multidimensional space in electricity application

[Ahire, P.G., Patil, P.D.](#)

2

Citations

Cluster Computing, 2024, 27(1), pp. 499–513

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Conference Paper

gender and Age Detection Using Multimodal Deep Neural Network

[Ahire, P.G., Patil, R.A., Bharati, R.D., ... Ramteke, A., Shelar, S.](#)

2

2024 8th International Conference on Computing Communication Control and Automation Iccubea 2024, 2024

Citations

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Conference Paper

generative AI Powered Forensic Device

[Kshirsagar, V.G., Bhosale, D.G., Suryawanshi, S., ... Ahire, P.G., Patil, R.A.](#)

4

2024 8th International Conference on Computing Communication Control and Automation Iccubea 2024, 2024

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Conference Paper

document Generation and Validation using Blockchain

[Bharati, R., Jaiswal, D., Jadhav, P., ... Patil, H., Ahire, P.](#)

1

2024 8th International Conference on Computing Communication Control and Automation Iccubea 2024, 2024

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<p>Department of Computer Science and Engineering (Artificial Intelligence)</p>		

Related documents

Conference Paper

Fun soundify: Music Generation powered by AI

Kshirsagar, V.G., Suryawanshi, S., Pawar, A., ... Ahire, P.G., Patil, R.A.

2024 8th International Conference on Computing Communication Control and Automation Iccubea 2024, 2024

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Citations

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Article • *Open access*

context-Aware clustering and the optimized whale optimization Algorithm:

An Effective Predictive Model for the smart Grid

Ahire, P.G., Patil, P.D.

9

Citations

International Journal on Recent and Innovation Trends in Computing and Communication, 2023, 11(1), pp.

[Ahire, Prashant G.](#)
64–70

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Conference Paper

Intrusion Detection using Camera and Alert Management

[Ahire, P.](#), [Lokhande, M.](#), [Patil, R.](#), ... [Zaware, S.](#), [Zalki, T.](#)

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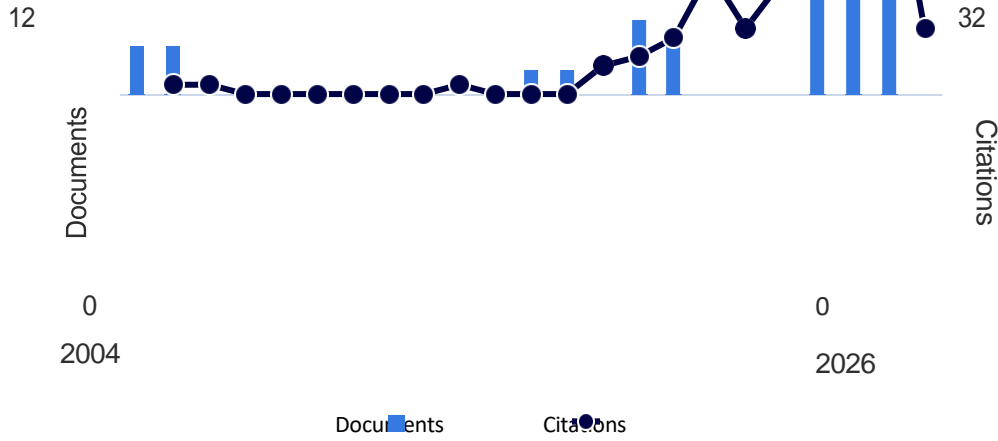


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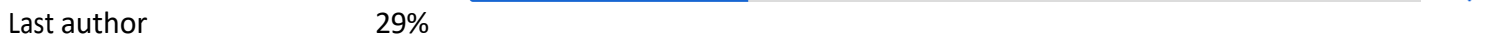
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[Shinde, S.](#), [Waghulade, R.B.](#), [Bormane, D.S.](#)

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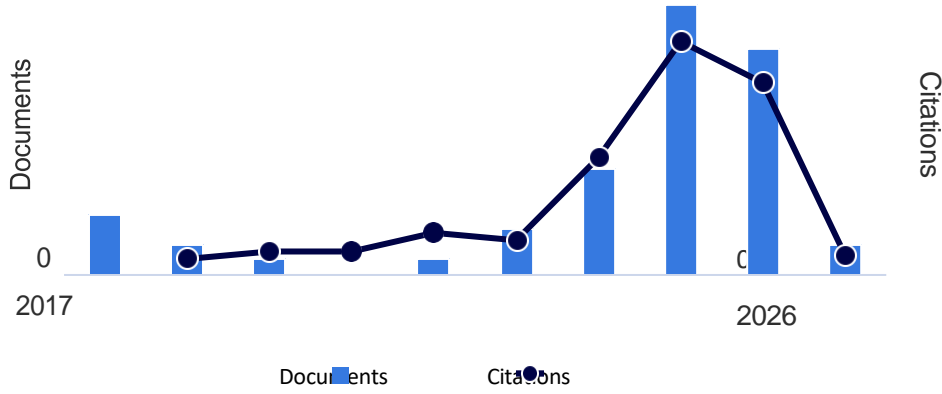


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International Journal of Electronics and Telecommunications, 2021, 67(3), pp. 437–443

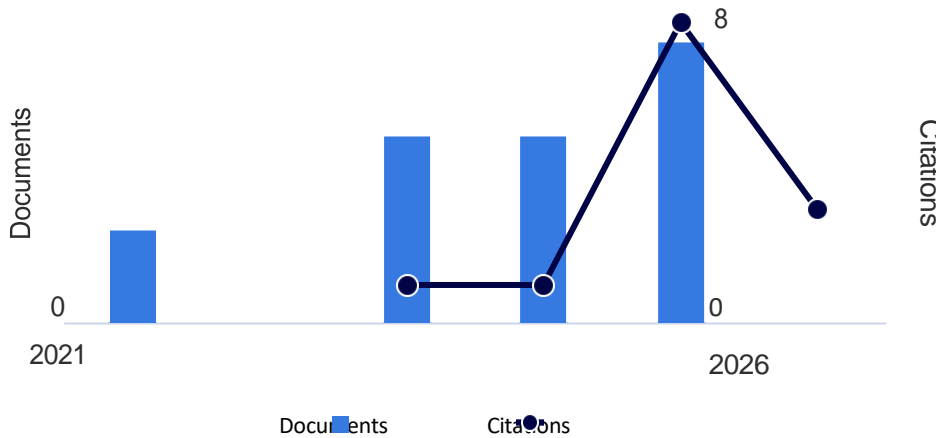
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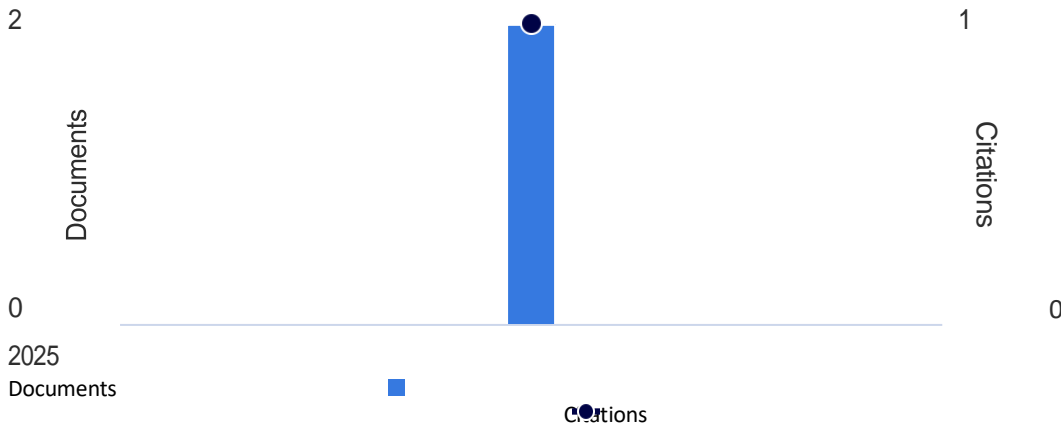
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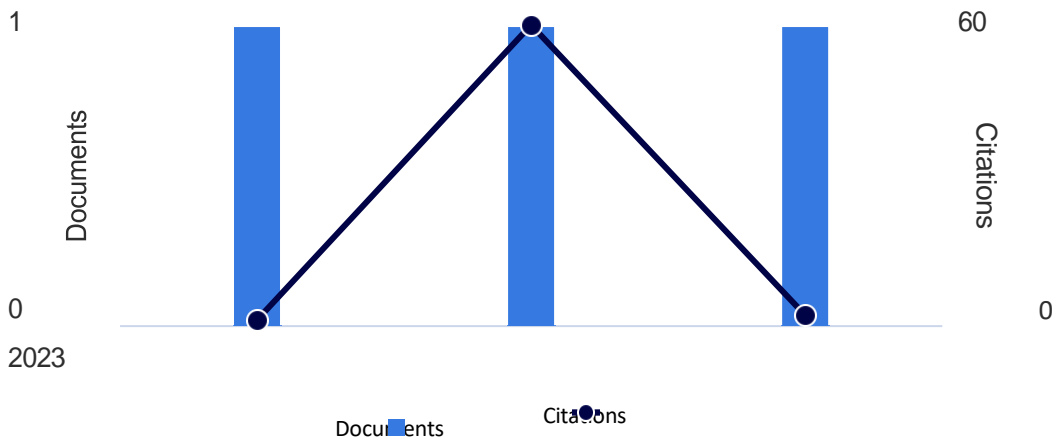
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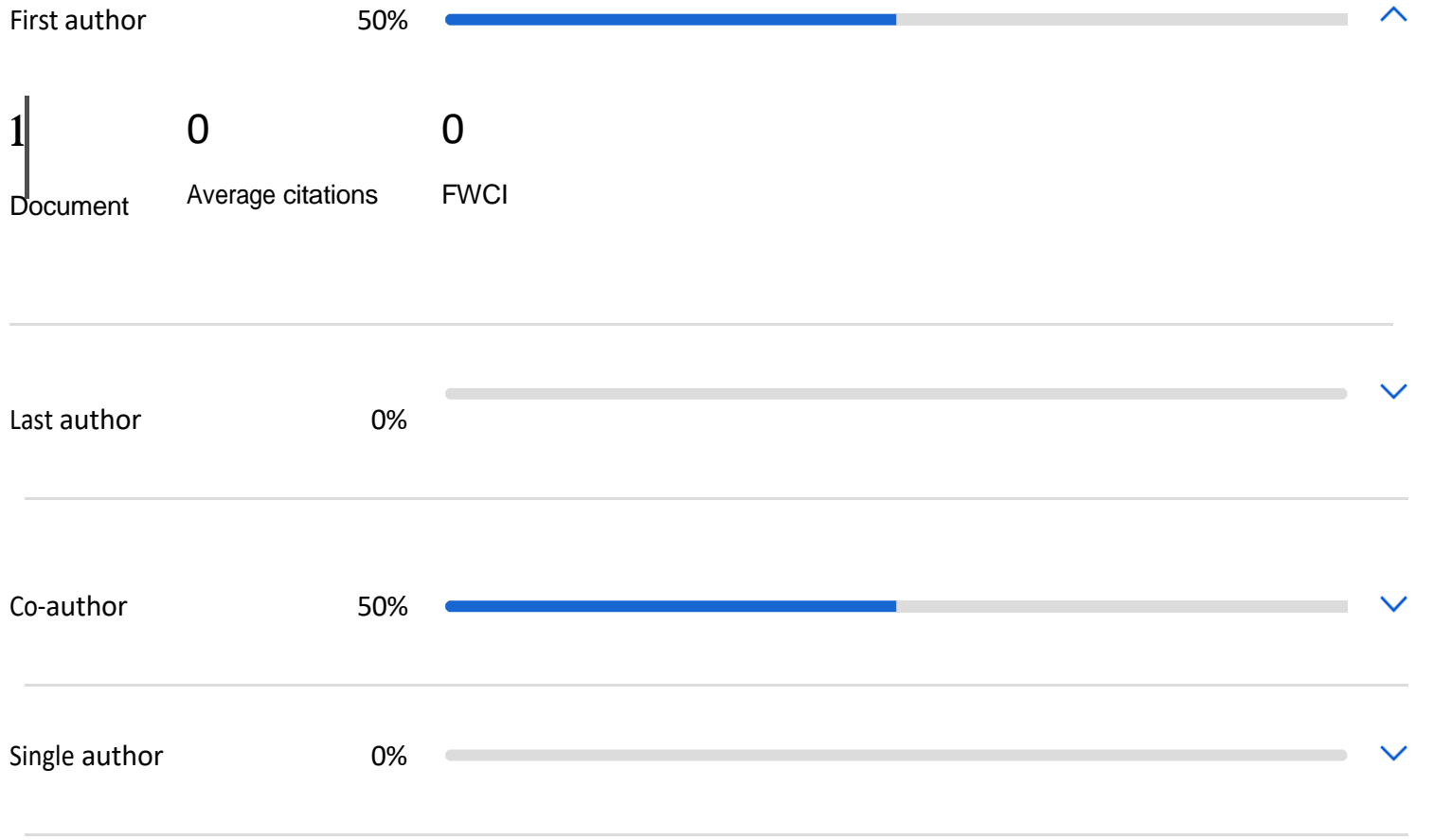
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Kale, M., Charkha, S., Dehankar, P., ... Jakhete, M., Javanjal, V.


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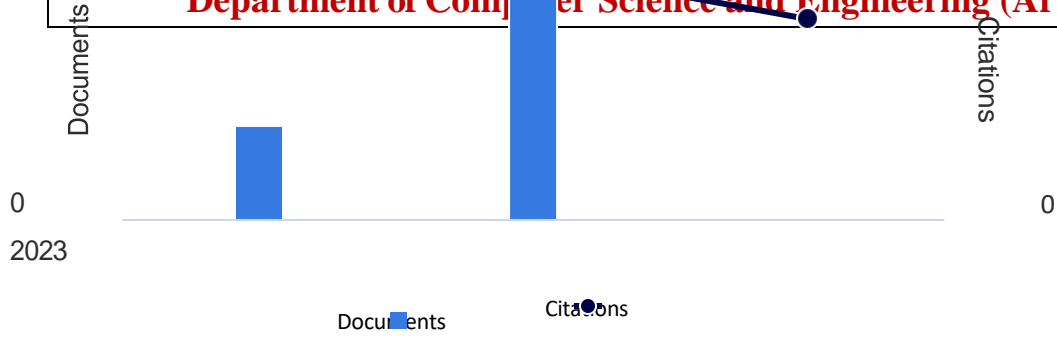
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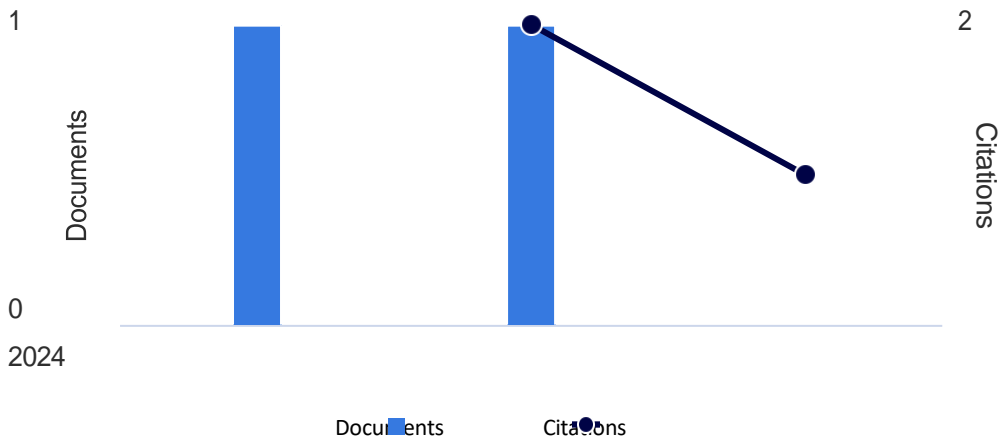


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