

**Department of Computer Science & Engineering**  
**Research & Development**

**INDEX**

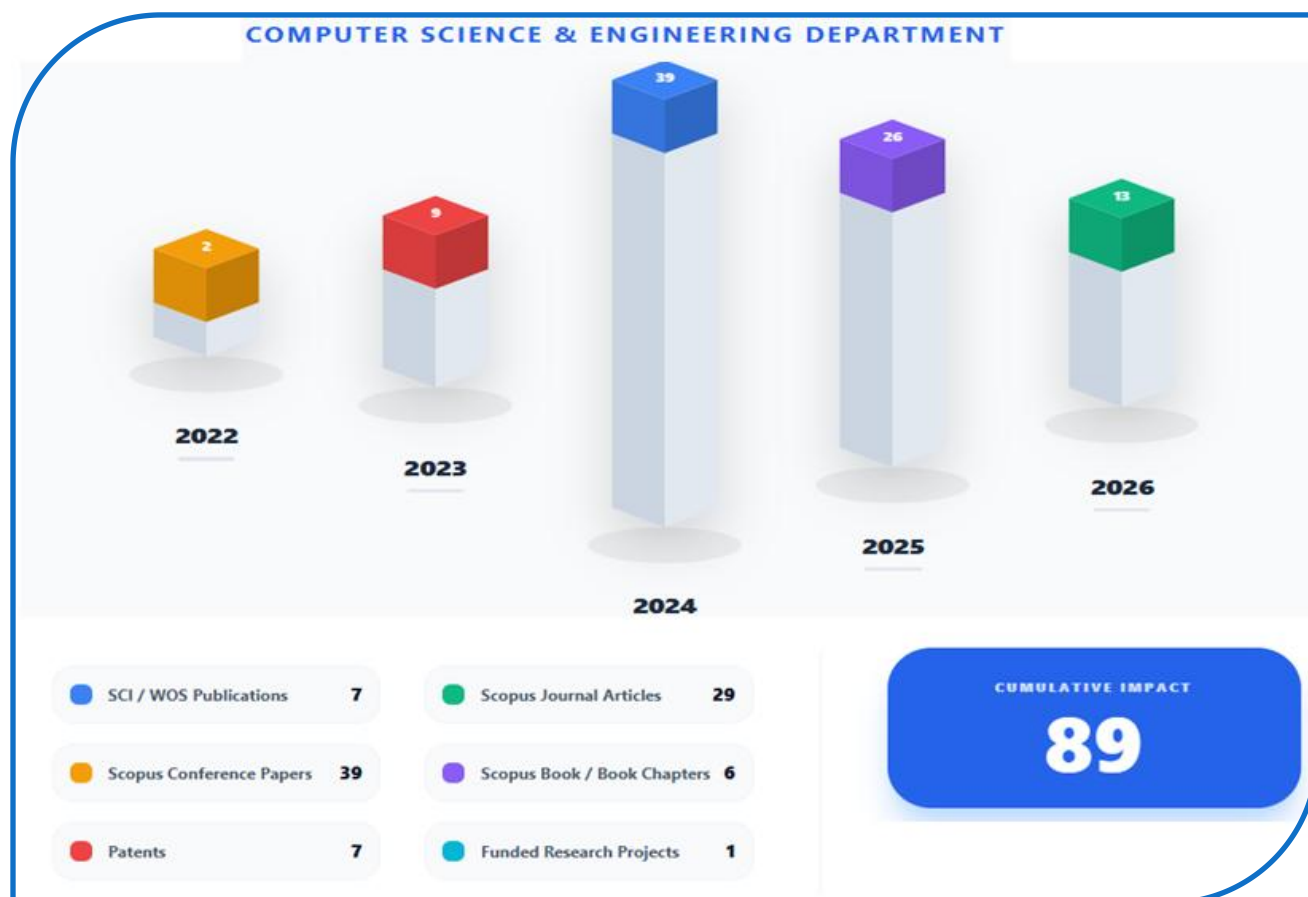
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## A. Overall Summary Sheet (2022 – Till Date)

Sr. No.	Research Category	2022	2023	2024	2025	2026	Total
1	SCI / WOS Publications	-	-	1	3	3	7
2	Scopus Journal Articles	1	2	11	11	4	29
3	Scopus Conference Papers	1	3	21	10	4	39
4	Scopus Book / Book Chapters	-	2	3	1	-	6
5	Patents	-	2	3	1	1	7
6	Funded Research Projects	-	-	-	-	1	1
7	Consultancy Projects	-	-	-	-	-	-
8	Research MoUs	-	-	-	-	-	-
9	International Conferences Organized	-	-	-	-	-	-
10	Total	2	9	39	26	13	89



## B.1. SCI / WOS Publications

S.N	Year	Faculty	Authors	Title	Name of Journal
1	2026	Dr. Mahesh P. Wankhade	Amol S. Suryawanshi, Amol K. Kadam, Mahesh P. Wankhade, Ganesh Vitthal Kadam, Govinda B. Sambare, Sumit Arun Hirve and Dattatray G Takale	Hybrid Convolutional Neural Networks–Transformer Architecture Optimized with Gooseneck Barnacle Algorithm for Grape Leaf Disease Classification	ES Food and Agroforestry
2		Dr. Sanjeevkumar Angadi	Sanjeevkumar Angadi, Saili Hemant Sable, Tejaswini Zope, Rajani Amol Hemade, Vaibhavi Umesh Avachat	Artificial protozoa lotus effect algorithm enabled cognitive brain optimal model for sentiment analysis utilizing multimodal data	COMPUTER SPEECH AND LANGUAGE (ELSEVIER)
3		Shital Mehta	Shital Gujarathi-Mehta , Rahul Shrivastava, Sanjeevkumar Angadi	SpinalCNN: spinal convolutional neural network based kidney cancer detection	Biomedical Signal Processing and Control
4	2025	Dr. Sanjeevkumar Angadi	Lingaraj A. Hadimani, Manjunath R. Hudagi, Sachin Urabinahatti , Sanjeevkumar Angadi , Basavaraj A. Patil	Classification of animal species using efficient neuron attention stage by-stage network	Engineering Applications of Artificial Intelligence
5			Mukesh Kumar Tripathi, D.N. Vasundhara, V.K.N.S.N. Moorthy, Kapil Misal, Bhagyashree Ashok Tingare, Sanjeevkumar Angadi	Hybrid deep learning system for crop disease classification using modified SegNet segmentation	Computers and Electrical Engineering
6		Ms. Sarita Charkha	Prashant Patil, Sarita Charkha, Satish V. Kakade, Prashant Bansilal Patel, Pranita Kadam, Megha Garg & Shrinivas Shirkande	Transfer learning optimization in medical imaging enhancing diagnostic accuracy with limited data sets	Journal of Information and Optimization Sciences
7	2024	Dr. Sanjeevkumar Angadi	Neelam Sanjeev Kumar, G. Deepika, V. Goutham, B. Buvaneswari, R. Vijaya Kumar Reddy, Sanjeevkumar Angadi, C. Dhanamjayulu, Ravikumar Chinthaginjala, Faruq Mohammad & Baseem Khan	HARNet in deep learning approach—a systematic survey	Scientific Reports

## B.2\_Scopus Journal Article

2022

Authors	Author full names	Title	Document Type
Prof. Chaudhari D.	Mahajan, Kirti (57213918786); Alhasen, Saeed (58091109500); Chaudhari, Deepti (58091218300); Sharanyaa, S. (57192541090); Agrawal, Deepti (57202489091)	Jaya-Mutated Leader Algorithm Based Deep Feed Forward Neural Network for Intrusion Detection Using Cloud Computing	Article

2023

Authors	Author full names	Title	Document Type
Dr. Wankhade M.	Wankhade, Mahesh (55446594900); Ganage, Dharmendra (43761071500); Chincholkar, Yugendra (57190346237); Wagh, Suchita (57210964971); Wankhade, Megha (57219221239)	An Efficient Mobile Charger Based Scheduling for Design of Mobility-based Algorithms for Wireless Sensor Networks	Article
Dr. Wankhade M.P.	Agarwal, Sarika (58150127300); Vinaya Laxmi, K. (58237642000); Gupta, Nirmal Kumar (55449339800); Wankhade, Mahesh P. (55446594900); Bapat, Varsha (57192806013)	A Blockchain Security Based IoT-Enabled System for Safe and Effective Logistics Management in IR 4.0	Article

## 2024

Authors	Author full names	Title	Document Type
Dr. Angadi S.	Kumar, Neelam Sanjeev (56656514300); Deepika, G. (59182605700); Goutham, V. (60262994800); Buvaneswari, B. (56884582900); Reddy, R. Vijaya Kumar (57201420936); Angadi, Sanjeevkumar (57223018464); Dhanamjayulu, C. (56178560700); Chinthaginjala, Ravikumar (59378930500); Mohammad, Faruq (36619135400); Khan, Baseem (55647924400)	HARNet in deep learning approach—a systematic survey	Article
Dr. Angadi S.K.	Prasad, Tenneti Ram (55621982500); Tripathi, Mukesh Kumar (57193736821); Moorthy, C.H.V.K.N.S.N. (57194447713); Nemade, Vidya A. (58879976300); Barpute, Jyotsna Vilas (58675784500); Angadi, Sanjeev Kumar (57223018464)	Mathematical Modelling and Implementation of NLP for Prediction of Election Results based on social media Twitter Engagement and Polls	Article
Dr. Angadi S.	Mahalungkar, Seema Pankaj (59381253800); Shrivastava, Rahul (57205204984); Angadi, Sanjeevkumar (57223018464)	A brief survey on human activity recognition using motor imagery of EEG signals	Article
Dr. Angadi S.	Angadi, Sanjeevkumar (57223018464); Moorthy, Chellapilla V.K.N.S.N. (57194447713); Tripathi, Mukesh Kumar (57193736821); Tingare, Bhagyashree Ashok (59245739900); Kadam, Sandeep Uddhavrao (57962028400); Misal, Kapil (58898486000)	An NFMF-DBiLSTM model for human anomaly detection system in surveillance videos	Article
Dr. Angadi S.	Moorthy, C.H.V.K.N.S.N. (57194447713); Tripathi, Mukesh Kumar (57193736821); Hudagi, Manjunath R. (57443246400); Hadimani, Lingaraj A. (54404849200); Chavan, Gayatri Sanjay (59013853600); Angadi, Sanjeevkumar (57223018464)	Identification of soluble solid content and total acid content using real-time visual inspection system	Article
Dr. Angadi S.	Hemalatha, S. (57210077349); Janakidevi, Maddala (59124272000); Kumar, Pullela S. V. V. S. R. (56824795000); Arunkumar, M.S. (57170338400); Angadi, Sanjeevkumar (57223018464); Muruganantham, T. (56884800300); Hamsalekha, R. (58314265200); Muni, T. Vijay (56565423200)	Detecting Intruder and Black Hole Attackers in Mobile Adhoc Network	Article
Prof. Charkha S.	Charkha, Sarita (58899123900); Jakhete, Mayur (57205023291); Waghmare, Prachi (58633483400); Chaudhari, Dipamala (58906415000); Jatale, Ketan (58905717300); Zope, Tejaswini (58066643400); Rathi, Bhushan (58906068900); Sharma, Vidur (58906415100)	Advancements in Cyclostationary Technique for Cognitive Radio: An In-Depth Examination and Evaluation	Article

Prof. Zope T.K.	Moorthy, Chellapilla V.K.N.S.N. (57194447713); Tripathi, Mukesh Kumar (57193736821); Joshi, Suvarna (57212646162); Shinde, Ashwini (56194367600); Zope, Tejaswini Kishor (58066643400); Avachat, Vaibhavi Umesh (58898333000)	SEM and TEM images' dehazing using multiscale progressive feature fusion techniques	Article
Prof. Shreyashi S.	Shreyashi, Sweta (58640169500); Keshri, Anup Kumar (58542766200)	Artificial Intelligence Techniques for Effective Detection of TBI From CT Scans- Novel Perspective in the Clinical Care of TBI Patients: A Systematic Review	Article
Dr. Pande A.	Shende, Priti (59483296400); Shinde, Sagar (57201982647); Wadhwa, Lalitkumar (56997043000); Waghulde, Kishor (50162859300); Pande, Aparna (57193879097); Sonawane, Amol (57218938606); Shaikh, Armaan (58550956400)	Soft computing approach for feature extraction of palm biometric	Article

## 2025

Authors	Author full names	Title	Document Type
Dr. Wankhade M.P.	Wankhade, Mahesh P. (55446594900); Ganage, Dharmendra G. (43761071500); Wankhade, Megha M. (57219221239); Chincholkar, Yugendra (57190346237)	Effective Cluster Head and Routing Scheme Estimation Using Mixed Attention-Based Drift Enabled Federated Deep Reinforcement Learning in Wireless Sensor Networks	Article
Dr. Angadi S.	Luo, Tian-jian (57201472647); Angadi, Sanjeevkumar (57223018464); Elashiri, Mohamed A. (55001812800)	Ensemble strategies exploration for the calibration data optimized spatial filters based SSVEP recognition algorithms	Article
Dr. Angadi S.	Mahalungkar, Seema Pankaj (59381253800); Shrivastava, Rahul (57205204984); Angadi, Sanjeevkumar (57223018464)	QFMNet: Quantum fusion maxout network for brain activity detection using motor imagery of EEG signals	Article
Dr. Angadi S.	Angadi, Sanjeevkumar (57223018464); Sable, Saili Hemant (58908240900); Mehta, Shital Bhushan (57194250754); Hemade, Rajani Amol (60035849500); Avachat, Vaibhavi Umesh (58898333000)	FKFFNet: Fractal Kronecker Forward Fractional Net for Severity Detection of Tuberculosis Using Sputum Image	Article
Dr. Angadi S.	Hadimani, Lingaraj A. (54404849200); Hudagi, Manjunath R. (57443246400); Urabinahatti, Sachin (58128293400); Angadi, Sanjeevkumar (57223018464); Patil, Basavaraj A. (57208826740)	Classification of animal species using efficient neuron attention stage-by-stage network	Article
Dr. Angadi S.	Tripathi, Mukesh Kumar (57193736821); Vasundhara, D.N. (57211561682); Moorthy Ch, V.K.N.S.N. (57194447713); Misal, Kapil (58898486000); Tingare, Bhagyashree Ashok (59245739900); Angadi, Sanjeevkumar (57223018464)	Hybrid deep learning system for crop disease classification using modified SegNet segmentation	Article
Dr. Angadi S.	Bhardwaj, Diwakar (57191624415); Nagabhooshanam, N. (57202996825); Singh, Ajeet (59663949800); Selvalakshmi, B. (56925460100); Angadi, Sanjeevkumar (57223018464); Shargunam, S. (57216783234); Guha, Tapas (58038808900); Singh, Gurkirpal (59664044700); Rajaram, A. (36633060200)	Enhanced satellite imagery analysis for post-disaster building damage assessment using integrated ResNet-U-Net model	Article
Dr. Angadi S.	Bhaskar, Thupakula (57197292519); Sathish, K. (59938100800); Rosy Salomi Victoria, D. (55944539800); Kanth, Er. Tatiraju. V. Rajani (59553243500); Patil, Uma (59373779000);	Hybrid deep learning framework for enhanced target tracking in video surveillance using CNN and	Article

	Mukkapati, Naveen (57559504200); Angadi, Sanjeevkumar (57223018464); Karthikeyan, P. (56845793700); Vidhya, R.G. (57751176300)	DRNN-GWO	
Prof. Patil Uma	Bhaskar, Thupakula (57197292519); Hema, N. (59938273000); Jasmine, R. Rajitha (58285268200); Pearlin (59937559400); Patil, Uma (59373779000); Chundurur, Madhava Rao (59352427800); Saravanan, P. (57923618300); Venkatesh, Kanna T. (55659301300); Vidhya, R.G. (57751176300)	An adaptive learning model for secure data sharing in decentralized environments using blockchain technology	Article
Dr. Pande A.	Shinde, Sushama Seetaram (59750407500); Pande, Aparna (57193879097)	High-Performance Computing-Based Brain Tumor Detection Using Parallel Quantum Dilated Convolutional Neural Network	Article
Dr. Pande A.S.	Rathod-Jadhav, Kavita Tallusing (59706450400); Pande, Aparna Sachin (57193879097)	HYBRID DEEP SPIKING NEURAL PRINCIPAL COMPONENT ANALYSIS NETWORK FOR DIABETIC RETINOPATHY DETECTION USING RETINAL FUNDUS IMAGE	Article

## 2026

<b>Authors</b>	<b>Author full names</b>	<b>Title</b>	<b>Document Type</b>
Dr. Wankhade M.P.	Jamadar, Riyazahemed A. (58237797400); Patil, Pritesh (57207830480); Magar, Harshada B. (58209519900); Wankhade, Mahesh P. (55446594900)	REAL-TIME AI FEEDBACK FOR PERFORMANCE STUDENTS	Article
Dr. Angadi S.	Angadi, Sanjeevkumar (57223018464); Sable, Saily Hemant (58908240900); Zope, Tejaswini (58066643400); Hemade, Rajani Amol (60035849500); Avachat, Vaibhavi Umesh (58898333000)	Artificial protozoa lotus effect algorithm enabled cognitive brain optimal model for sentiment analysis utilizing multimodal data	Article
Prof. Shital Mehta	Gujarathi-Mehta, Shital (60059258300); Shrivastava, Rahul (57205204984); Angadi, Sanjeevkumar (57223018464)	SpinalCNN: spinal convolutional neural network based kidney cancer detection	Article
Dr. Angadi S.	Chaudhari, Deepti (59223538500); Shrivastava, Rahul (57205204984); Angadi, Sanjeevkumar (57223018464)	Hierarchical Attention Fuzzy Random Multimodal Network–Based English–Hindi Question Answering System	Article

## B.3\_Scopus Conference Papers

2022

Authors	Author full names	Title	Document Type
Prof. Zope T.	Zope, Tejaswini (58066643400); Rajeswari, K. (6601981341)	Sentiment Analysis of Covid-19 Tweets using Twitter Database-A Global Scenario	Conference paper

2023

Authors	Author full names	Title	Document Type
Prof. Chaudhari D.	Chaudhari, Deepti (58091218300); Angadi, Sanjeevkumar (57223018464); Sable, Saili (58908240900); Patil, Uma (59373779000); Chaudhari, Dipamala (58906415000); Jadhav, Kavita (58908851600)	Sentimental Analysis on Zomato Restaurant Reviews using Bi-LSTM	Conference paper
Prof. Shreyashi S.	Shreyashi, Sweta (58640169500); Keshri, Anup Kumar (58542766200)	Identification of Mild Traumatic Brain Injuries by Machine Learning using Whole-Brain Functional Activity	Conference paper

**2024**

<b>Authors</b>	<b>Author full names</b>	<b>Title</b>	<b>Document Type</b>
Dr. Angadi S.	Bansal, Saloni (57261601100); Reddy, R. Venkateswara (57202649728); Aggarwal, Saurabh (57952377300); Adnan, Myasar Mundher (57221874677); Kumar, Devender (59242797400); Angadi, Sanjeevkumar (57223018464)	Empirical Analysis of Developing EC Based Algorithms for Various WSN Network Applications	Conference paper
Dr. Angadi S.	Kumar, S. Prem (57301725300); Thirumalesh, M. Sai (59336218300); Kumar, T. Pramod (59335556000); Reddy, P. Subba (59335556100); Angadi, Sanjeevkumar (57223018464); Venu, Nookala (56419878000)	CNN-Based Detection of Tampered Digital Images	Conference paper
Dr. Angadi S.	Aelgani, Vivekanand (58184026800); Kumar, Gaurav (60076485800); Al-Fatlawy, Ramy Riad (58949918400); Kumar, Yogendra (55085035900); Sharma, Deepti (57192933663); Angadi, Sanjeevkumar (57223018464)	Integration of ML Layer with GBC based Classifier for Better Recognition of Voice in Mobile	Conference paper
Dr. Angadi S.	Gill, Rupali (57205019973); Kumar, Rakesh (57187034200); Pant, Shivani (58950017200); Deepika, A. (59294551100); Al-Fatlawy, Ramy Riad (58949918400); Angadi, Sanjeevkumar (57223018464)	An Extensive Examination of Different Phases Available in Enhancing the Power of WSN	Conference paper
Prof. Sable S.	Sable, Saili (58908240900); Angadi, Sanjeevkumar (57223018464); Shinde, Ashwini (56194367600); Mehta, Shital (57194250754); Patil, Uma (59373779000)	Facial Expression Recognition in ATM Surveillance System	Conference paper
Dr. Angadi S.K.	Yadav, Kanchan (57220900396); Sruthi, Pinamala (55418866700); Al-Jawahry, Hassan M. (57223710456); Kumar, Devender (59242797400); Gehlot, Anita (57709976000); Angadi, Sanjeev Kumar (57223018464)	The Unique Way of Designing SNN Network for Content Recommending System using Hybrid Algorithms	Conference paper
Dr. Angadi S.K.	Dixit, Krishna Kant (57216854095); Singh, Satyendra (60253716000); Kiran, P. Ravi (57218109034); Al-Attabi, Kassem (57215298086); Sinha, Aashna (57225790207); Angadi, Sanjeev Kumar (57223018464)	A Deep Study on Encroachment Recognition Model through W-S-N and I-O-T	Conference paper
Dr. Angadi S.	Kumar, Ashok (59803543900); Jasim, Laith (59162479200); Pramanik, Atreyi (58184114100); Maheswari, G. (58626546700); Sangeetha, S. (59832638800); Angadi, Sanjeevkumar (57223018464)	A Well-Structured Data Sharing System Implementation using EC Technology and Higher end Communication Network	Conference paper
Dr. Angadi S.	Badhoutiya, Arti (57201858001); Sivaiah, Borra (57643589100); Almusawi, Muntather (58204594700); Verma, Rajan (58994190900); Singh,	An Intensive Review on Propagative Antagonistic N/W which	Conference paper

	Rajesh (57610169600); Angadi, Sanjeevkumar (57223018464)	is used in Health Care System	
Dr. Angadi S.	Rao, D.T.V. Dharmajee (57203042393); Sharma, Kuldeep (57207403302); Joshi, Sanjeev Kumar (58070510300); Rani, T Sudha (58040699600); Alsalami, Zaid (58949240400); Angadi, Sanjeevkumar (57223018464)	An Empirical Analysis and Overview of a Green 6-G Paradigms and its Various Implementation Applications	Conference paper
Dr. Barapatre P	Barapatre, Praveen (57209473217); Bhosage, Nikita (59187383800); Gaikwad, Mukta (59188205800); Pawar, Rajani (59186976600); Kamble, Kshitija (59187585700)	A Review Paper on AIoT as Vision Aid for Visually Impaired People	Conference paper
Prof. Jadhav K.M.	Dudhe, Swaraj Ravindra (59515888000); Ichole, Prajakta Aniruddha (59515319000); Bansode, Sudarshan Rameshwar (59515888100); Gaikwad, Kalyani Sandip (59516079700); Jadhav, Kavita Mahesh (58908851600)	Implementation of Diamond Security System Using Machine Learning and Blockchain	Conference paper
Prof. Zope T.K	Shinde, Ashwini S (56194367600); Zope, Tejaswini K (58066643400); Bongulwar, Deepali (57962836600); Chavan, Manjusha N (57202354399); Chaudhari, Deepti A. (58091218300); Sonawane, Atharv (59787226000)	Hybrid Deep Learning Models for Accurate Early Detection of Lung Cancer from MRI Scans	Conference paper
Prof. Kachare P.K.	Manwatkar, Ashish Bapurao (59567298700); Deshmukh, Rajesh Keshavrao (57836183000); Junnarkar, Aparna Atul (57201977939); Kamble, Shubhangi Jagdish (59567434000); Kachare, Pranita Kishor (59567298800); Latkar, Snehal Prashant (59567045600)	Securing Industry 4.0-Based Precision Agriculture	Conference paper
Prof. Kachare P.K.	Manwatkar, Ashish Bapurao (59567298700); Deshmukh, Rajesh Keshavrao (57836183000); Junnarkar, Aparna Atul (57201977939); Kamble, Shubhangi Jagdish (59567434000); Kachare, Pranita Kishor (59567298800); Latkar, Snehal Prashant (59567045600)	Broadcast Tree Construction for Secure and Shortest Path Finding Techniques in WSN for Smart Farming Application	Conference paper
Prof. Shreyashi S.	Shreyashi, Sweta (58640169500); Keshri, Anup Kumar (58542766200)	Design a Novel Framework for Traumatic Brain Injury Classification Using Deep Learning Algorithm	Conference
Prof. Chaudhari D.A.	Mahjan, Aditya (59516077500); Hendre, Pradnya (59514738400); Mankhair, Gauri (59516077600); Satpute, Shubhangi (59514931800); Chaudhari, Deepti A. (58091218300)	Bidirectional Sign Language Translation System	Conference paper
Dr. Pande A.	Shinde, Sagar (57201982647); Pande, Aparna (57193879097); Patil, Pramod (14632512000); Chaudhari, Ashay (59188192900); More, Ketan (59187169700); Shaikh, Armaan Suhel (58550956400)	LlAMA2 and Django Web Application Approach for Simplifying Table Parsing: Review	Conference paper

Dr. Pande A.	Shinde, Sagar B. (57201982647); Pande, Aparna (57193879097); More, Ketan (59187169700); Chaudhari, Ashay (59188192900); Mate, Niraj (59186966300); Rokade, Shivam (59188193000)	Simplifying Table Parsing using TAPAS API and Django web Application: Review	Conference paper
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2025

Authors	Author full names	Title	Document Type
Prof. Ragho S.R.	Ragho, Soni R. (59563277500); Ghule, Vidya R. (59979097500); Wasulkar, Gayatri S. (59979097600); Jadhav, Sanjivani M. (59978955600); Ghule, Aniket T. (59978673000)	“Sign Language Gesture Recognition Using Machine Learning”	Conference paper
Prof. Ragho S.	Adkar, Rahul (59727938600); Balghare, Siddhesh (59727545500); Waghmare, Chaitanya (59728711400); Jadhav, Abhishek (59727938700); Ragho, Soni (59563277500)	SCAR—Speech Conversion and Assist Responses	Conference paper
Prof. Chorade P.	Haribhakta, Pratik (59738901500); Raut, Shubham (59739413700); Garud, Bramhadev (59739105200); Chorade, Priti (59563741600)	Personal Protective Equipment Detection	Conference paper
Prof. Chorade P.T.	Chorade, Priti T. (59563741600); Chandanshive, Preeti D. (59727751300); Shinde, Sneha Deepak (59728132000); Biradar, Vaishnavi (59727751400); Gaikwad, Mrunali (59727551300)	Implementation Paper on “Text Summarization and Visualization Using NLP”	Conference paper
Prof. Dhawase Dhammyanti	Dhawase, Dhammyoti (59922109200); Rathore, Narendra (60219056300); Panmand, Prajyot (59920956800); Yadav, Vaishnavi (59920757300); Patil, Paras (58486691600)	A Survey on Accessible Deepfake Detection on Improved Datasets and Algorithms	Conference paper
Prof. Patil Uma	Yadav, Vaishnavi (59920757300); Kamble, Shreya (60224179400); Panmand, Prajyot (59920956800); Patil, Paras (58486691600); Patil, Uma (59373779000)	Fake News Detection: A Multi-Model Approach Using Hybrid Machine Learning Techniques	Conference ICCDS 2025
Prof. Patil Uma	Dhore, P.B. (59218660900); Patil, Uma (59373779000); Shinde, P.S. (59712899400)	Faculty and Student Perceptions of Library Resource and Service Utilization: A Clustering Algorithm Approach	Conference Paper
Dr. Pande A.	Rathod-Jadhav, Kavita (59706450400); Pande, Aparna (57193879097)	A Deep Learning Approach for Diabetic Retinopathy Classification Using Retinal Images	Conference paper
Prof. Jordan Choudhari		A Comprehensive Review of Quantum Machine Learning: Frameworks, Algorithms, Challenges, and Future Directions	Conference paper
Prof. Pansre Sairabanu		Preventing SQL Injection Attacks with Machine Learning: A TF-IDF + XGBoost Approach	Conference paper

## 2026

<b>Authors</b>	<b>Author full names</b>	<b>Title</b>	<b>Document Type</b>
Prof. Hemade R.A.	Hemade, Rajani Amol (60035849500); Shetty, Jashwini (60377566000); Palhade, Anjali (60377691600); Pawar, Aditi (60377312900); Shetty, Anuja (60377313000)	SheShield	Conference paper
Prof. Ragho S.R	Ragho, Soni R. (59563277500); Swami, Rohan R. (60166705900); Gaikwad, Tanuja S. (60166653800); Narke, Aaditi P. (60166653900); Atak, Shubham M. (60166706000)	Plant Leaf Disease Detection System Using Deep Learning	Conference paper
Prof. Ragho S.	Salgar, Suraj (60194379000); Shinde, Sarthak (58934365000); Somwanshi, Tushar (60194012200); Divekar, Onkar (60194554300); Ragho, Soni (59563277500)	Deep Fake Face Detection Using Machine Learning	Conference paper
Prof. Chorade P	Chorade, Priti (59563741600); Patil, Shubham V. (60214288000); Warbhuvan, Naman G. (60214144300); Kengar, Rushikesh S. (60214709600); Gite, Omkar V. (60214571700)	Lung Cancer Detection Using CNN	Conference paper

## B.4\_ Scopus Book / Book Chapters

2023

Authors	Author full names	Title	Document Type
Dr. Angadi S.K.	Senthil Kumar, C. (57211345974); Arunarani, A.R. (55362196400); Charan, Piyush (57200214468); Angadi, Sanjeev Kumar (57223018464)	Exploring the potential of artificial intelligence for automated sentiment analysis and opinion mining	Book chapter
Dr. Angadi S.K.	Jagannatha Reddy, M.V. (57198104483); Somasekar, J. (55353870400); Thopate, Kaushalya (57999296300); Angadi, Sanjeev Kumar (57223018464)	Exploring artificial intelligence techniques for enhanced sentiment analysis through data mining	Book chapter

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Authors	Author full names	Title	Document Type
Dr. Angadi S.	Gupta, Suneet (58814222500); Vanteru, Madhu Kumar (57221967436); Angadi, Sanjeevkumar (57223018464); Manikandan, K. (57188803383); Tiwari, Mohit (24483852000); Dhanraj, Joshuva Arockia (57189578655)	Current Breakthroughs and Future Perspectives in Surgery Based on AI-Based Computing Vision	Book chapter
Prof. Patil Uma	Molakatala, Nagamani (59318315500); Anil Kumar, D. (57203952399); Patil, Uma (59373779000); Mhatre, Pratik J. (57188979216); Sambathkumar, M. (57193406205); Boopathi, S. (57312510800)	Integrating 5G and IoT technologies in developing smart city communication networks	Book Chapter

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Authors	Author full names	Title	Document Type
Prof. Patil Uma	Dhanasekar, M. (60031370000); Joshi, Rijuta Prashant (59660128700); Somasundaram, R. (12781683100); Kavya, D.N. (59300609900); Patil, Uma (59373779000); Boopa, Subhi (59004487600)	Enhancing quality education in engineering and technology through AI implementation	Book Chapter

## B.5\_ Patents

S. N.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name
1	492017-001	Under Process 2026	1. Dr. Jayant Rangnathrao Mahajan 2. Aparna Tiwari 3. Mr. Jordan Satish Choudhari	AI based Device for Traffic monitoring & Control	1. Dr. Jayant Rangnathrao Mahajan 2. Aparna Tiwari 3. Mr. Jordan Satish Choudhari
2	474081-001	Published 2025	1. Dr. Yugendra Devidas Chincholkar 2. Dr. Megha Mahesh Wankhade 3. Dr. Dharmendra Gokuldas Ganage 4. Suchita Dharmendra Ganage 5. Dr. Mahesh Prabhakar Wankhade	Neuro Patient Monitoring Wearable Device	1. Dr. Yugendra Devidas Chincholkar 2. Dr. Megha Mahesh Wankhade 3. Dr. Dharmendra Gokuldas Ganage 4. Suchita Dharmendra Ganage 5. Dr. Mahesh Prabhakar Wankhade
3	DE 20 2024 100 834	Published 2024	1. Angadi, Sanjeevkumar 2. Chaudhari, Deepti 3. Dalal, Bhargavi 4. Jadhav, Kavita Mahesh 5. Pande, Aparna Sachin 6. Sable, Saili Hemant 7. Shinde, Ashwini 8. Waghmare, Prachi Madan 9. Zope, Tejaswini Kishor	Machine Learning-Based Decision Support System For Clinical Diagnosis And Treatment Planning	1. Angadi, Sanjeevkumar 2. Chaudhari, Deepti 3. Dalal, Bhargavi 4. Jadhav, Kavita Mahesh 5. Pande, Aparna Sachin 6. Sable, Saili Hemant 7. Shinde, Ashwini 8. Waghmare, Prachi Madan 9. Zope, Tejaswini Kishor
4	202441006260	Published 2024	1 . Dr. Inamul Hasan Madar 2 . Shital Bhushan Mehta 3 . Dr. N.Gaoudam 4 . C. Heltin Genitha 5 . S. Jayasree 6 . Dr S. Geeitha 7 . Dr. K Rajendra Prasad 8 . Mamatha B 9 . Dr V Kavitha 10 . Atal Bihari Singh 11 . Dr. K. Srinivasa Rao 12 . Dr.A. Senthilkumar	EARLY AND ACCURATE PREDICTION OF KIDNEY DISEASES USING ALGORITHMS OF DEEP LEARNING	1 . Dr. Inamul Hasan Madar 2 . Shital Bhushan Mehta 3 . Dr. N.Gaoudam 4 . C. Heltin Genitha 5 . S. Jayasree 6 . Dr S. Geeitha 7 . Dr. K Rajendra Prasad 8 . Mamatha B 9 . Dr V Kavitha 10 . Atal Bihari Singh 11 . Dr. K. Srinivasa Rao 12 . Dr.A. Senthilkumar
5	202321084969	Published 2023	1 . Dr. Ashwini Shivdas Shinde 2 . Dr. Aparna Sachin Pande 3 . Mr. Atharv Nitin Sonawane 4 . Ms. Deepti A. Chaudhari 5 . Mrs. Dipamala U. Chaudhari 6 . Mrs. Dipika Paranjape 7 . Mrs. Priyanka Abhay	ARTIFICIAL INTELLIGENCE BASED URBAN SEWAGE MANAGEMENT SYSTEM WITH REAL-TIME MONITORING AND DAMAGE REPAIRING.	1 . Dr. Ashwini Shivdas Shinde 2 . Dr. Aparna Sachin Pande 3 . Mr. Atharv Nitin Sonawane 4 . Ms. Deepti A. Chaudhari 5 . Mrs. Dipamala U. Chaudhari

			Vyas 8 . Prachi Madan Waghmare 9 . Mrs. Tejaswini Kishor Zope 10 . Dr. Deepali Makarand Bongulwar		6 . Mrs. Dipika Paranjape 7 . Mrs. Priyanka Abhay Vyas 8 . Prachi Madan Waghmare 9 . Mrs. Tejaswini Kishor Zope 10 . Dr. Deepali Makarand Bongulwar
6	202321080547	Published 2023	1 . Dr. Rajaram Tripathi 2 . Dr. Mohd. Shaikhul Ashraf 3 . Dr.Ashwini Shivdas Shinde 4 . Prof. Dhammjyoti Vithalrao Dhawase 5 . Abhishek Gautam 6 . Mrs. Dhanashri D. Dhokate 7 . Dr.Akanksha Pandey 8 . Vipin Kumar Sharma 9 . Ishtiaq Ahmed 10 . Dr. Rajeev Ranjan	ROBOTIC SYSTEM INTEGRATED WITH SMART FARMING TECHNOLOGICAL SOLUTION FOR SUSTAINABLE AND EFFICIENT AGRICULTURE.	1 . Dr. Rajaram Tripathi 2 . Dr. Mohd. Shaikhul Ashraf 3 . Dr.Ashwini Shivdas Shinde 4 . Prof. Dhammjyoti Vithalrao Dhawase 5 . Abhishek Gautam 6 . Mrs. Dhanashri D. Dhokate 7 . Dr.Akanksha Pandey 8 . Vipin Kumar Sharma 9 . Ishtiaq Ahmed 10 . Dr. Rajeev Ranjan
7	202311047378	Published 2023	1 . Sandip Kumar Singh 2 . R. Elavarasan 3 . Dhawase Dhammjyoti Vithalrao 4 . Neha Sankhwar 5 . Dr. Sheshang Degadwala 6 . Haewon Byeon	BLOCK CHAIN-BASED SECURE DATA MANAGEMENT SYSTEM FOR INTERNET OF THINGS (IOT) DEVICES	1 . Sandip Kumar Singh 2 . R. Elavarasan 3 . Dhawase Dhammjyoti Vithalrao 4 . Neha Sankhwar 5 . Dr. Sheshang Degadwala 6 . Haewon Byeon

## B.6 Funded Research Projects (In-Process)

### PROPOSAL DETAILS

Dr. Ashwini Shivdas Shinde

ashsshinde@gmail.com

Associate Professor (Electronics and  
Telecommunication)

Nutan Maharashtra Institute of Engineering and Technology  
"samarth vidya sankul", vishnupuri, talegaon dabhade, Pune,  
Maharashtra-410507

#### Technical

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<b>Program :</b>	AI for Science and Engineering		
<b>Broad Area:</b>	AI for Science and Science of AI (ANRF)		
<b>Sub Area:</b>	AI for Medical Imaging		
<b>Duration :</b>	36 Months	<b>Contact No :</b>	+918055935256
<b>Date of Birth :</b>	26-Oct-1972	<b>Nationality :</b>	INDIAN

#### Project Summary :

Point-of-Care Ultrasound (POCUS) is essential for rapid diagnosis in emergency, critical care, trauma, obstetrics, cardiac and rural healthcare settings. However, high-quality interpretation requires trained radiologists, and existing handheld POCUS devices are expensive, cloud-dependent and proprietary. This proposal aims to build an affordable, indigenous, RISC-V powered handheld ultrasound device with on-device AI-based automated organ segmentation to support clinicians in real time. The central hypothesis is that combining post-2020 AI models (vision transformers, diffusion models, neural operators) with a custom RISC-V edge-AI processor will enable real-time (less than 200 ms) segmentation, speckle reduction, anatomical landmarking and view classification entirely on-device—eliminating dependence on cloud infrastructure. The hardware includes a miniaturised phased-array/CMUT ultrasound probe, programmable analog front-end, low-noise acquisition chain and a RISC-V SoC with vector extensions and Tiny-NPU acceleration, designed specifically for medical imaging workloads.

#### Objectives :

- Develop a RISC-V based low-power edge-AI compute platform optimized for real-time ultrasound inference.
- Design and implement a miniaturised phased-array/CMUT ultrasound probe with programmable AFE and beamforming.
- Build post-2020 AI models (transformers, diffusion, neural operators) for multi-organ ultrasound segmentation and speckle reduction.
- Create the Open India-POCUS Dataset with greater than 30,000 multi-centre annotated ultrasound clips.
- Achieve real-time inference latency less than or equal to 200 ms/frame and robust performance across probes/operators.
- Deliver a fully integrated TRL-5/6 clinical prototype validated across three partner hospitals.

#### Keywords :

RISC-V, Ultrasound Imaging, POCUS, AI Segmentation, Diffusion Models, Medical Edge-AI

**Expected Output and Outcome of the proposal :**

## Short-Term Outputs:

- Open-source transformer, diffusion and neural-operator models for ultrasound.
- RISC-V inference runtime, micro-kernels and quantized model variants.
- Prototype POCUS device with real-time segmentation overlays.
- Multi-centre ultrasound dataset with annotations.
- Technical validation reports, benchmarking suite and reproducibility scripts.

## Long-Term Outcomes:

- Clinically deployable handheld AI-ultrasound device for emergency, obstetric, cardiac and rural care diagnostics.
- Reduced dependence on proprietary foreign imaging platforms and cloud services.
- Strengthened national capability in RISC-V medical-edge computing and indigenous medtech.
- A reusable open-science foundation for future AI-enabled medical devices under the IndiaAI ecosystem.
- Large-scale translational potential across Tele-ICU, ambulance triage, PHCs and NDHM integration.

**Any other relevant information:**

The proposed project establishes a scalable indigenous platform for AI-enabled medical imaging, combining RISC-V hardware, ultrasound physics and advanced AI models. The open-source outputs (dataset, models, inference runtime and benchmarks) will directly support future ANRF/India AI initiatives, strengthen national Medtech capability and enable low-cost deployment across public health systems.

**Proposed Research Collaborator Details :**

S.No.	Name	Type of Collaboration
1	<p>Silicon Microsystems (SiMS)</p> <p>1st Floor, VTU Regional Centre, 1st Main Road, RHCS Layout, Annapurneshwari Nagar, Naagarabhaavi, Bengaluru, Karnataka - 560091, Bharat.</p> <p>Name of Competent Authority &amp; Designation: Mr. M. S. Jayachandra Aradhya, CEO Industry Web Address: www.simsindia.net</p> <p>India</p>	<p>Silicon Microsystems (SiMS), established in 1998, is a leading Electronics Design &amp; Manufacturing (ESDM) and embedded-systems company with deep expertise in VLSI, Embedded Systems, IoT, RISC-V/ARM platforms, signal processing and edge-AI. SiMS has delivered 250+ complex electronic systems across aerospace, defence, industrial automation, biomedical devices and robotics. Their engineering capabilities span multilayer PCB design, RF/AFE design, mixed-signal electronics, embedded firmware, FPGA/RISC-V development, MEMS sensor integration and medical-grade system engineering. SiMS has extensive experience in developing sensor-integrated devices, ultrasound-adjacent embedded platforms, real-time data acquisition modules and edge-AI hardware. Through its divisions (ESDM Solutions, Beetle Technologies, Ximax Solutions, SiMS Masters), the company supports end-to-end product engineering—from architecture, design, prototyping and testing to manufacturing. SiMS is well-positioned to contribute to RISC-V hardware development, ultrasound AFE integration, embedded AI optimization and system-level engineering for this POCUS project</p>
2	<p>Krish Ai technologies Pvt Ltd</p> <p>Prestige Tranquility 15156, Budigere Rd, Budigere Cross, Bengaluru, Karnataka 560049</p> <p>India</p>	<p>Expertized in the domain of LLM, industry is going to support for developing model which will enhance the accuracy of predicting organ segmentation using medical images. Company is registered in the year of 2024 and providing support in the development of AI in medical imaging.</p>

**Co - Principal Investigator Details :**

S. No.	Co-PI Details	
1		<p><b>Latha M</b> lathaganesh1@gmail.com Professor and Head(Computer Science and Engineering)</p> <p><b>Jain Institute of Technology</b> No-323, Near Veereshwar Puriyashrama, BADA Cross, Avaragere Village, KARNATAKA, Davangere D.O.B : 29 Jun, 1971</p>
2		<p><b>Santosh Herur</b> santoshmherur@gmail.com Professor(Electronics and Communication)</p> <p><b>Jain Institute of Technology</b> No-323, Near Veereshwar Puriyashrama, BADA Cross, Avaragere Village, KARNATAKA, Davangere D.O.B : 17 Jan, 1988</p>
3		<p><b>Anuradha Yenlikar</b> anuradha.yenlikar@vit.edu Assistant Professor(Artificial Intelligence)</p> <p><b>Vishwakarma Institute of Technology</b> 666, Upper Indiranagar, Bihwewadi, MAHARASHTRA, Pune D.O.B : 29 Aug, 1987</p>
4		<p><b>Sanjeevkumar Angadi</b> angadi.sanjeevkumar@gmail.com Associate Professor(Computer Science and Engineering)</p> <p><b>Nutan Maharashtra Institute of Engineering and Technology</b> "Samarth Vidya Sankul", Vishnupuri, Talegaon Dabhade, MAHARASHTRA, Pune D.O.B : 24 Jul, 1987</p>
5		<p><b>Vilas Deotare</b> vilas.deotare@nmiel.edu.in Professor(Electronics and Telecommunication Engineering)</p> <p><b>Nutan Maharashtra Institute of Engineering and Technology</b> "Samarth Vidya Sankul", Vishnupuri, Talegaon Dabhade, MAHARASHTRA, Pune D.O.B : 19 Jan, 1976</p>



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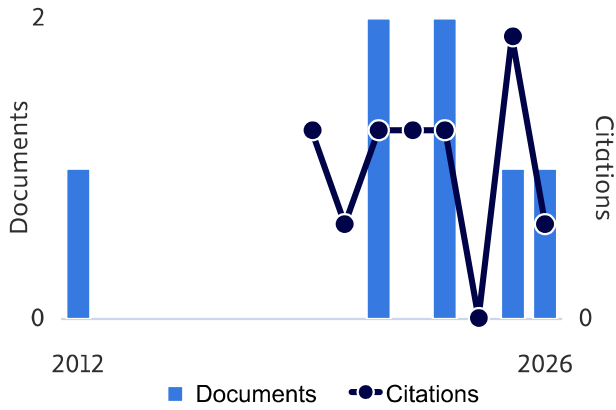
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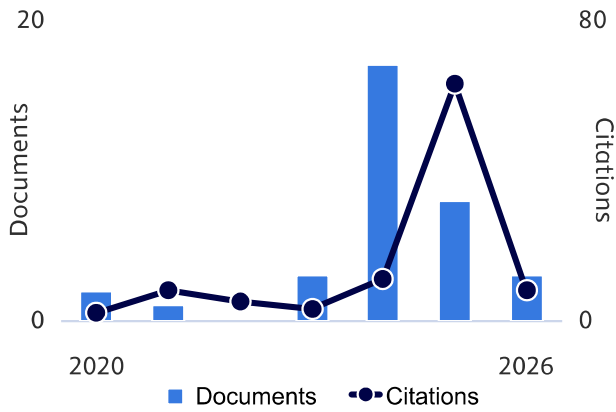
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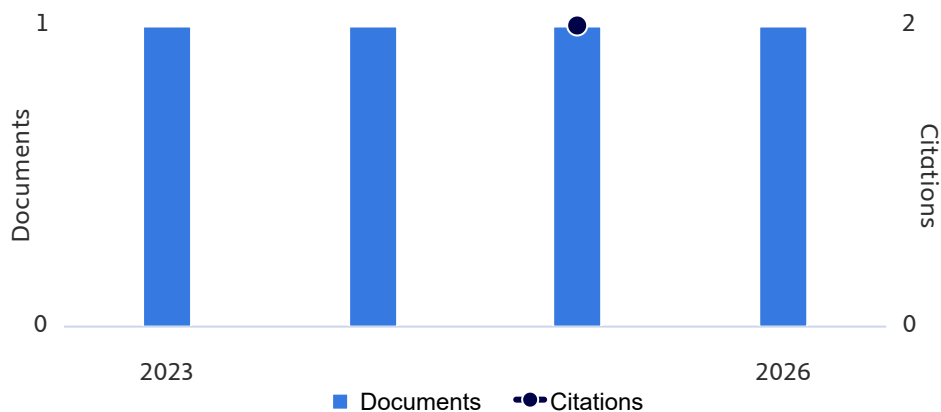
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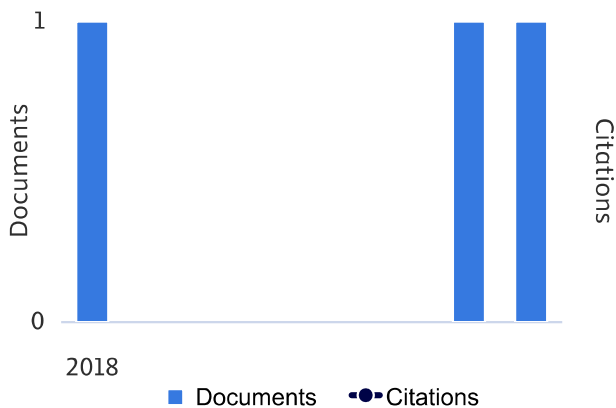
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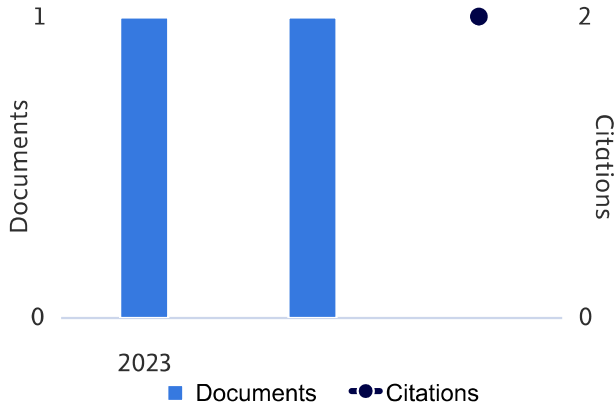
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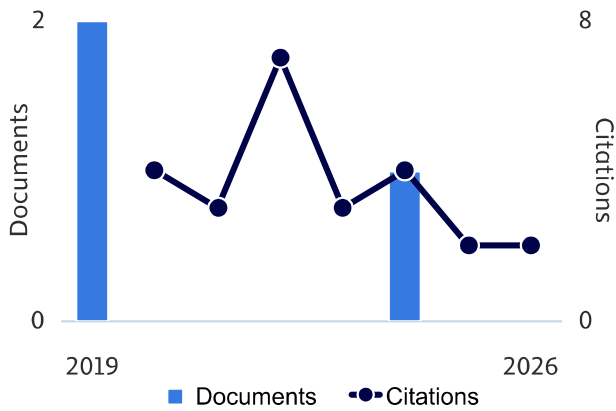
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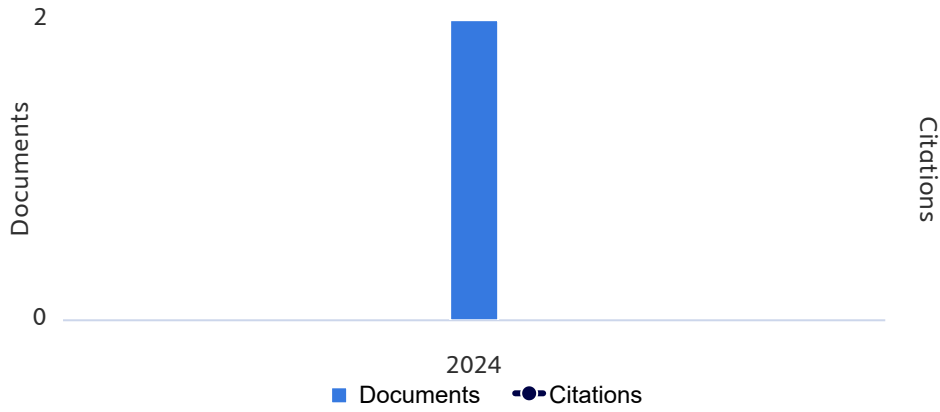
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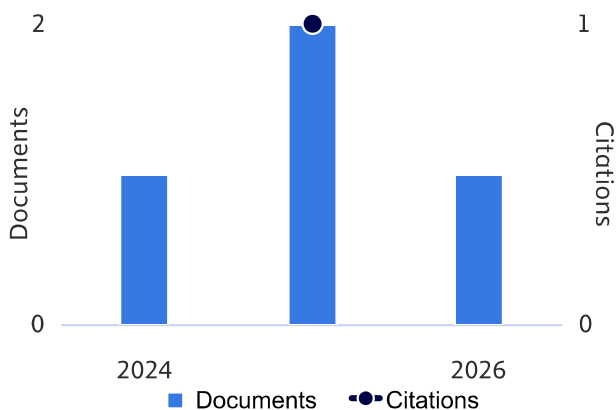
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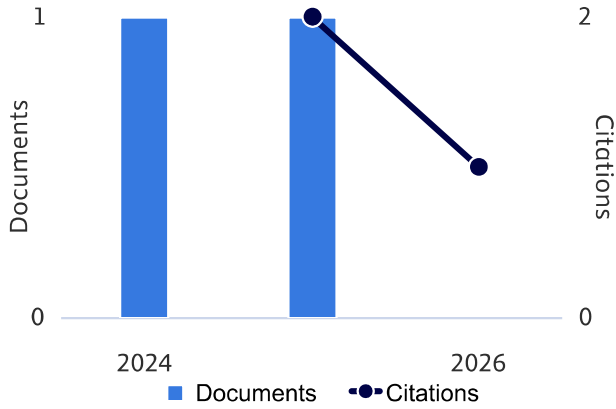
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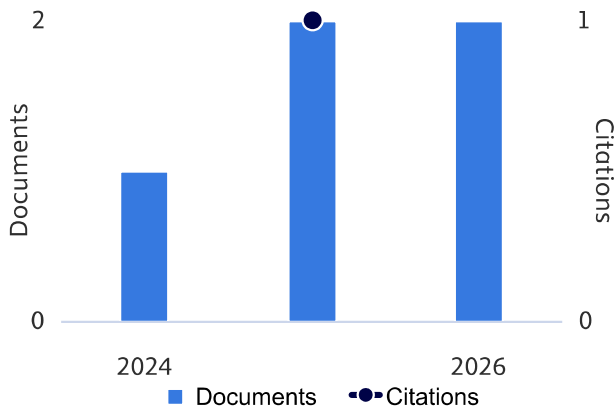
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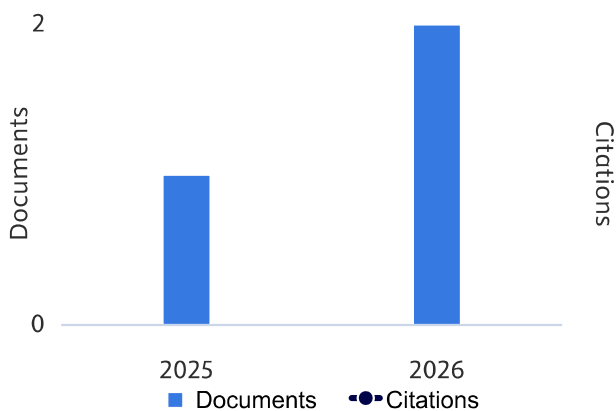
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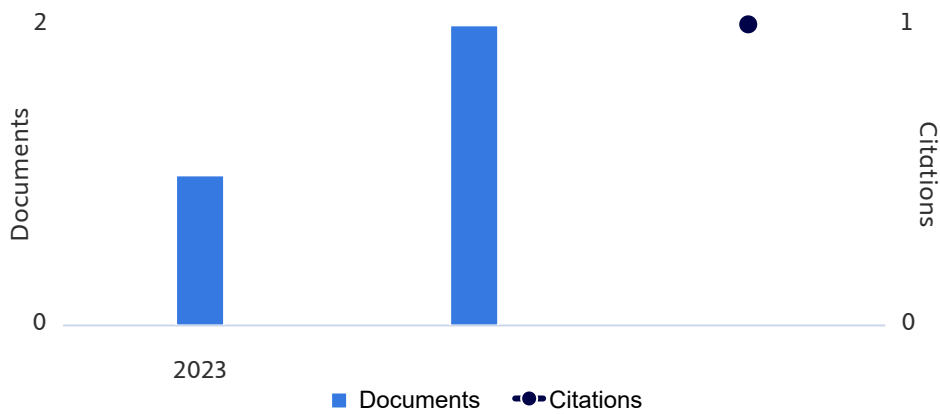
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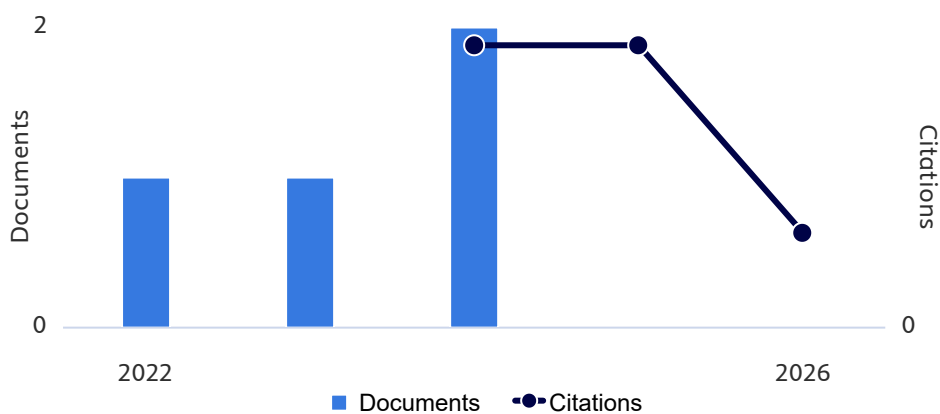
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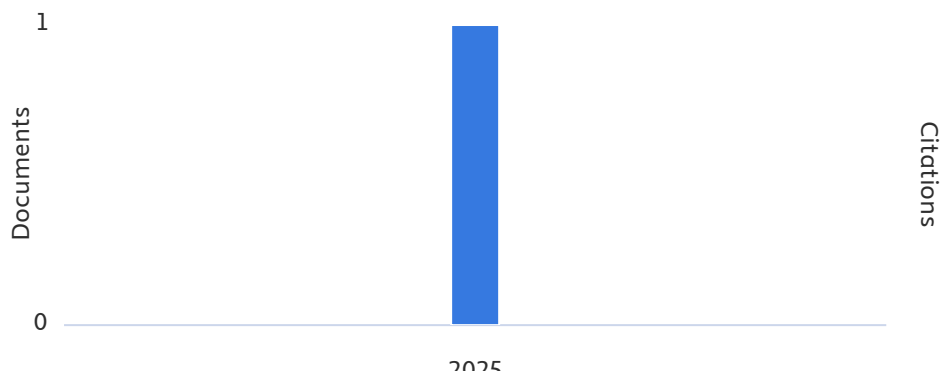
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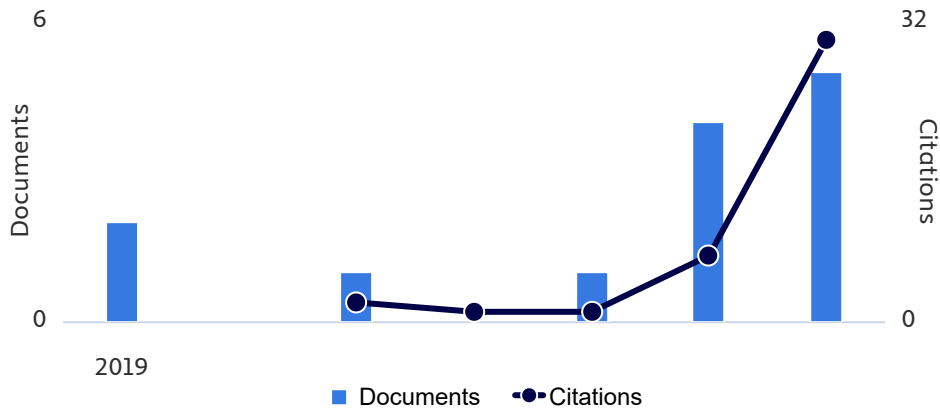
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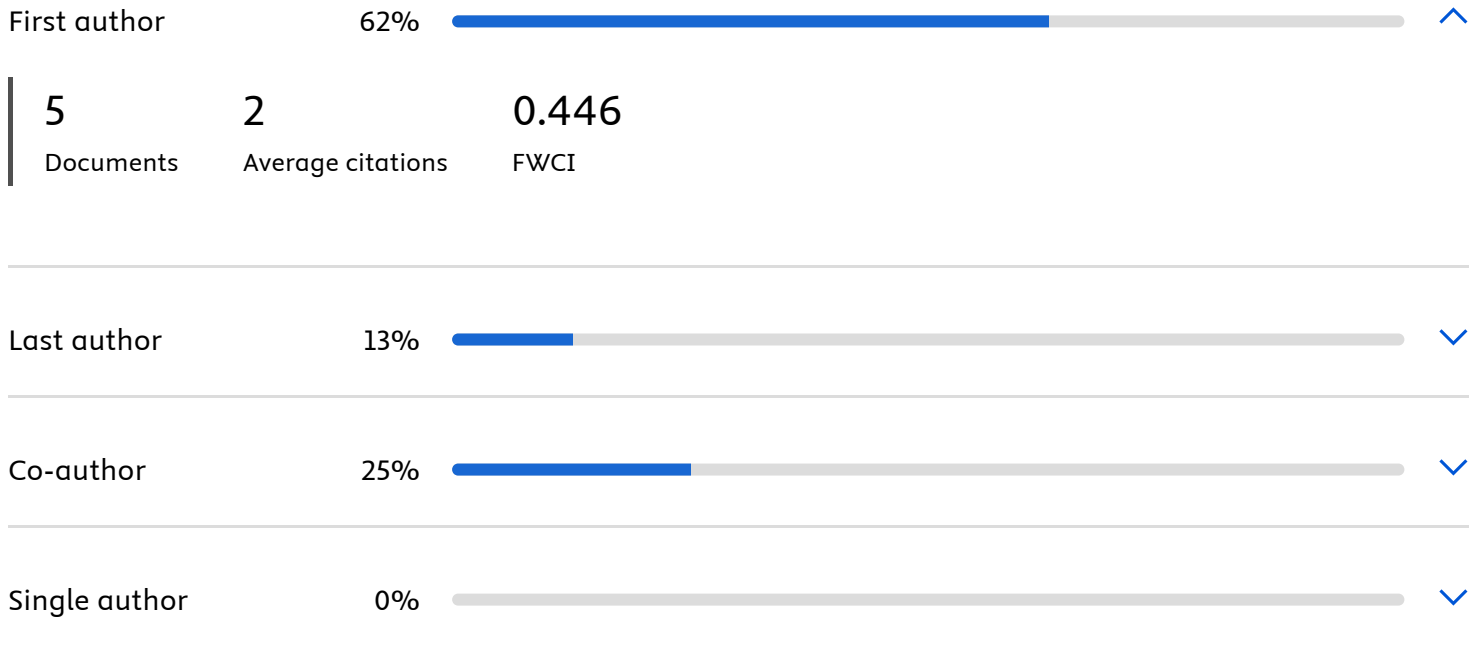
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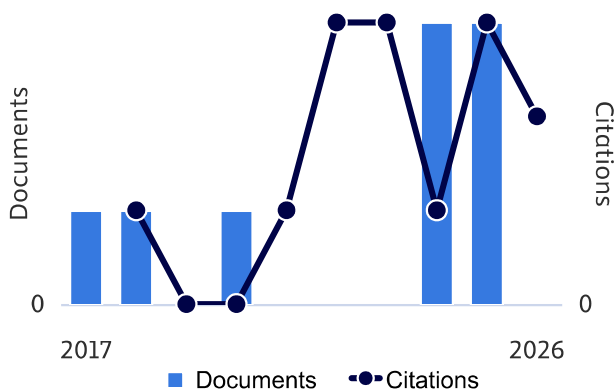
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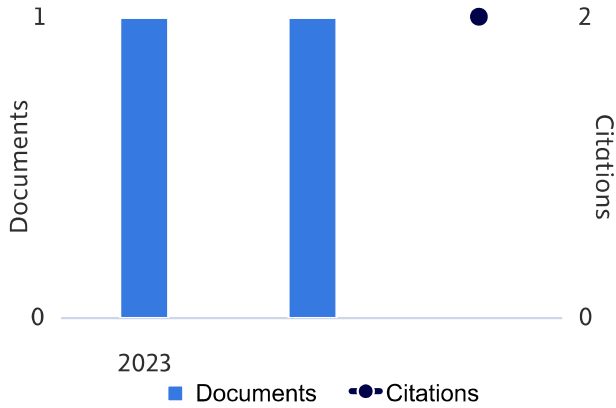
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