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SHARNBASVA
ಕಲಬುರಗಿ - ೫೮೫ ೧೦೩



ವಿಶ್ವವಿದ್ಯಾಲಯ
UNIVERSITY
KALABURAGI - 585 103



A State Private University approved by Govt. of Karnataka vide Notification No. ED 144 URC 2016 dated 29-07-2017
Recognised by UGC under Section 2f vide No. F.8-29/2017 (CPP-I/PU), dated 20-12-2017 & AICTE, CoA, PCI New Delhi

Faculty of Engineering and Technology (Exclusively for Women)

Department of Artificial Intelligence and Machine Learning

Faculty Achievements

Year: 2024

Name of the staff	Achievement & Awards
Sujata Mallapur	Session Chair: Acted as session chair for ICIICS – 2024.
	Award Received: Awarded as the "BEST PAPER PRESENTER" for the Paper entitled Peli-Remo Optimization Algorithm for Reliable routing in MANET: K-means node clustering process and CNN-based Energy Prediction For 2nd International Conference on Integrated Circuits and Communication Systems (ICICACS - 2024) organized by Department of Electronics and Communication Engineering, H.K.E. SOCIETY'S Sir M Visvesvaraya College of Engineering, Raichur during 23rd & 24th February 2024.
	Ph. D. Guided: 01 (Anand N. Patil)
	NPTEL Courses: <ol style="list-style-type: none"> 1. Successfully completed NPTEL course Python for Data Science, during the July-No. 2024. 2. Successfully completed NPTEL course Introduction to Internet of Things, during the July-No. 2024.
	Book Publication: Computer Networks a Systems Top-Down Approach, ISBN: 978-81-964693-5-1, 2024, PKS Publications.
	Patent Publication/Grants: <ol style="list-style-type: none"> 1. Device For Detection of Sugar Level, Design application number Filing date (provisional) 6349455, 2024. 2. Intelligent Code Optimization Using Machine Learning In Software Development, Application No.202441008128 A, 2024 3. Internet Of Things Based Automated Pill Dispenser, 405600-001, 2024.
Sujata Mallapur	Paper publications: <ol style="list-style-type: none"> 1. Swati Shivakumar Kagi, Sujata Veeresh Mallapur, "Wireless sensor network coverage of improved sea lion algorithm", International Journal of Communication systems, Wiley, 20 August 2024 https://doi.org/10.1002/dac.5953. 2. S, S., & Mallapur, S. V. (2024). A new hybrid optimization algorithm for maximizing area coverage in wireless sensor networks. <i>Australian Journal of Electrical and Electronics Engineering</i>, 21(4), 449–464. https://doi.org/10.1080/1448837X.2024.2337476 3. Manjula Biradar and Sujata Mallapur "Multipath Load Balancing in MANET via Hybrid Intelligent Algorithm", Journal of Information & Knowledge Management with Vol.: 23 No: 02 Page No: 1 to 23, 2024 publications, DOI: 10.1142/S02196492245001024. 4. Anand N Patil and Sujata V Mallapur, —Novel Authenticated Strategy for security enhancement in VANET system using block chain assisted novel



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	<p>routing protocoll, Scalable Computing Volume 25, Issues 1, pp. 593–605, DOI 10.12694/scpe.v25i1.2406 © 2024 SCPE, January 2024</p> <ol style="list-style-type: none"> Manjula Biradar and Sujata Mallapur “Improved Fuzzy C Means with Deep Learning based MANET Routing Model for Multimedia Communication”, Accepted in the International journal of networking and virtual organizations. Swati S & Sujata V. Mallapur, “A new hybrid optimization algorithm for maximizing area coverage in wireless sensor networks”, Australian Journal of Electrical and Electronics Engineering, pp. 1-16., May 2024. Sunita, M., Mallapur, S.V. Optimal detection of border gateway protocol anomalies with extensive feature set. <i>Multimed Tools Appl</i> 83, 50893–50919 (2024). https://doi.org/10.1007/s11042-023-17135-6. Enhancing Fraud Detection: Leveraging Deep Learning Methods for Retail Transaction, International Journal of Intelligent Systems and Applications in Engineering, 2147-6799, 2024. <p>Conference Presentation:</p> <p>Manjula Biradar and Sujata Mallapur “Optimization Algorithm for Reliable routing in MANET: K-means node clustering process and CNN-based Energy Prediction “, International Conference on Integrated Circuits and Communication Systems (ICICACS), 2024, PP 1-6, DOI: 10.1109/ICICACS60521.2024.10499017 5.</p> <p>M. A. Biradar and and S. Mallapur, "Reliable MANET Routing for Multimedia Communication," <i>2022 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)</i>, Chennai, India, 2022, pp. 1-8, doi: 10.1109/ACCAI53970.2022.9752573.</p> <p>A. N. Patil and S. V. Mallapur, "WASCO Routing Protocol: Enhancing Security in Vehicular Adhoc Networks (VANETs) using Weighted Average Sandpiper Coot Optimal Approach," <i>2024 4th International Conference on Innovative Practices in Technology and Management (ICIPTM)</i>, Noida, India, 2024, pp. 1-8, doi: 10.1109/ICIPTM59628.2024.10563935.</p>
<p>Rashmi Patil</p>	<p>NPTEL Courses:</p> <ol style="list-style-type: none"> NPTEL Online Certificate: Design Thinking - A Primer with a consolidated score of 79%, “SILVER ELITE”. NPTEL Online Certificate: Python for Data Science with a consolidated score of 76% “SILVER ELITE” <p>Sponsored Project:</p> <p>Received funded projects from KSCST: “SMART TRAFFIC CONTROL APPROACH FOR EMERGENCY VEHICLE” Fund Amount: 4,500/-</p>



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	<p>Reviewer:</p> <ol style="list-style-type: none"> 1. Institute of Scholars International publication platforms and also for technical events under the stream: Computer Science and Information Technology. 2. 2nd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA on 9th and 10th August 2024 in association with IEEE Bangalore Section. 3. .IEEE International Conference on Distributed systems, Computer networks and Cybersecurity ICDSCNC 2024 organized by Shri Krishna Institute of Technology, Bangalore on 20th – 21st September 2024. 4. International Conference on Software, Systems and Information Technology (SSITCON-2024) organized by the Department of Computer Science Engineering and Department of Information Science Engineering, Sri Siddhartha Institute of Technology, Tumakuru on 18th 19th October,2 024 5. Second Edition of International Conference on Data Science and Exploration in Artificial Intelligence, CODE AI 2025 held during 7th and 8th April 2025, organised by Department of Information Technology, Manipal Institute of Technology, Manipal Academy of Higher Education (MAHE), Bengaluru in collaboration with School of Engineering & IT (SoE-IT) Manipal Academy of Higher Education (MAHE), Dubai, UAE, in association with MITB ACM Student Chapter.
Bannamma Patil	<p>Paper Publication: Smart IoT-Driven Precision Irrigation: Enhancing Water Efficiency with Machine Learning and Real-Time Environmental Monitoring in IEEE International Conference on Computing Technologies & Data Communication (ICCTDC) held from July 4-5 2025.</p> <p>Certificate: Appreciation Certificate from IETE for Mentoring, Guidance & leadership.</p>
Supriya Bagewadi	<p>NPTEL Couse: Python for data Science</p> <p>Paper Publication: “Fine-grained textural detail enhancement: concatenating convolutional neural network features with adaptive fuzzy logic“ Signal, Image and Video Processing (2024)18:4615–4626 https://doi.org/10.1007/s11760-024-03099-z,</p> <p>Conference Presentation: Advanced Texture Classification Using Convolutional Deep Long Short-Term Memory for Enhanced Accuracy and Efficiency” Proceedings of the International Conference on Advances and Applications in Artificial Intelligence (ICAIAI 2025), Advances in Intelligent Systems Research 194, https://doi.org/10.2991/978-94-6463-738-0_64</p> <p>Sponsored Project: KSCST sanctioned project : “Ecovision Portable Plant Recognition System”</p>
Swati Kagi	<p>Paper Publication: 1.“Wireless Sensor Network Coverage of Improved Sea Lion Algorithm”, International Journal of Communication Systems ,DOI:10.1002/dac.5953.</p>



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	2. "Self Improved Jelly Fish Optimization for Extending Coverage in WSN", International Journal of Communication Systems ,Vol 2025, Issue 2, 2025
Ratnakala Patil	<p>Conference Presentation: "A comprehensive review of various brain activity recognition Methods" (2nd IEEE International Conference on Innovation High Speed Communication and Signal Processing IEEE-IHCSP) held on 8th Dec 2024</p> <p>Sponsored Project: "IOT Based Smart Toll Booth System Using Arduino"KSCST Project on 48TH Series</p>
Nirupama N D	<p>Sponsored Project: Audio Text And Image Transmission With Lifi Technology Using Esp32 Camera And Python.Sanction of Student Project - KSCST 48th Series: Year 2024-2025</p> <p>Paper Publication: 1."Audio, Text, and Image Transmission with LiFi Technology using ESP32 Camera and Python" GRADIVA REVIEW JOURNAL VOLUME 11 ISSUE 7 2025 ISSN NO : 0363-8057. 2."MobileNet-V2: An Enhanced Skin Disease Classification by Attention and Multi-Scale Features" Published in Springer</p>
Ayesha Heena	<p>Patent Publication/Grants: Three Indian Patents published. (Name of the Patents)</p> <ol style="list-style-type: none"> 1. UK Design Patent grant with design number: 6386576 granted on 4th September 2024 in respect of application of design to: User Interaction Computer Device in Virtual Reality Systems. 2. Indian Patent Published with certificate for Indian Utility Patent USPTO 3. Publication of Patent Titled: Real Time IoT-Based Smart Irrigation System for Water Resource Optimization. <p>1. Published a Paper titled "Enhancing Attendance Management: A Novel Approach using Advanced Face Recognition Technology" ICON-AI-SMT 2025, 1st International Conference on Interdisciplinary Horizons: Integrating AI in Science, Management and Technology submitted in Track: Intelligent Computing and AI System.</p> <p>2. Ayesha Heena, "BRAIN INSPIRED COMPUTING FOR ENHANCED HUMAN COMPUTER INTERACTION" Published in ICMSEE'25 Conference proceedings in Scopus Taylor and Francis publication.</p> <p>1. Attended/Participated in 9th International Conference on Human Values in Higher Education (ICHVHE 2024) Value based Education for Humane Society (Including SDGs) Worldwide Online from 22nd to 24th November 2024 as a Delegate.</p> <p>Awards</p> <ol style="list-style-type: none"> 1. :Received AMP's 8th National Awards for Excellence in Education 2024 Certificate of Appreciation in recognition to dedication & Hard work, inspiring young minds to learn, and selfless commitment to Excel in Education that exceeds expectations as MY FAVOURITE TEACHER among top 30 voted by student fraternity. Awarded DR. SARVEPALLI RADHAKRISHNAN OUTSTANDING EDUCATOR AWARD in recognition of exceptional contributions and achievements in the field of Science, Technology, Engineering, and Mathematics STEM research and



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	<p>innovation and for demonstrating outstanding dedication to education, mentorship and academic Excellence Faculty of the Year at International Entrepreneurs Academicians & Researchers Guild Awards IEARG 2025 by MTTF held on National Science Day, February 28, 2025 in Collaboration with Sharda University to honor outstanding contributions across various fields and disciplines in the world.</p> <ol style="list-style-type: none"> 2. IBR Achiever Award 2024 under INDIA BOOK OF RECORDS for achieving 250 certificates for different participations in workshops, quizzes, Research paper presentation/publication, webinars, NPTEL/SWAYAM Exams etc. 3. Awarded the Best Innovative Presenter Team IGNITERS at Sharnbasva University in FDP on Design Thinking. 4. Felicitated to Best Achievements for Invention Patents In AIML department of FETW on the occasion of NATIONAL YOUTH DAY & WEEK 2024 held in January 2024 from 12 to 19 th Jan 2024 Student Orientation program and Mini convocation. 5. Received Gold medals with Elite online Certification in NPTEL exams for courses Educational Leadership with a Consolidated Score of 99% during Jul-Oct 2024 (12 Week course)and Augmenting Design Thinking with Human Computer Interaction among Top 5% Toppers of NPTEL with score of 91% during Feb-Apr 2025 (8 Weeks course)
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Faculty of Engineering and Technology (Exclusively for Women)
Department of Artificial Intelligence and Machine Learning
Year: 2023

Name of Staff	Achievement & Awards
Sujata Mallapur	Session Chair: Acted as session char for ICIICS – 2023
	Award: Women Excellence Award – 2023, Sharnbasva University, Kalaburagi
	Reviewer: ICIICS 2023, Wiley International Journal of Communication Systems etc..
	Ph. D. Guided: 01 (Sunita Kharge)
	Patent Publication: 1. Multi-objective Optimization Technique for task Scheduling in Cloud Computing Environment, Application No.202311003515.
	Book Chapter: 1. Chapter Name: AI and IoT-based intelligence heart rate monitoring system, Book Title: AI and IoT-based intelligent Health Care & Sanitation, published by BENTHAM Science, Publisher, 2023. 2. Chapter: Applications of Artificial Intelligence, Recent Advances in Computer science, 2023, 978-93-94570-65-8, Kripa Dristi Publications.
	Journal Publications: 1. Anand N. Patil, SV Mallapur,” Original Research Article Novel machine learning based authentication technique in VANET system for secure data transmission”, Journal of Autonomous Intelligence, 2023. 2. Anand N Patil and Sujata V. Mallapur, Integrated Blockchain Manufacturing Design for Distributed Authentication, Validation and Secure Sharing of Events in VANET, Journal of Machine and Computing, 3(1) (2023), PP. 17-26, 2023.
Rashmi Patil	Conference Presentations: 1. Sujata V. Mallapur, “Identification of NPK deficiency in Toor Dal Leaf Using CNN Technique”, IEEE International Conference on Integrated Intelligence and Communication Systems - 2023 (ICIICS-2023), Nov. 24th and 25th 2004.
	Award: 1. Research Excellence Award- 2024, Institute of Scholars, 2024. 2. Young Researcher Award- 2024, Institute of Researchers, 2024.
	NPTEL Course: Introduction to Machine Learning with a consolidated score of 75% “SILVER ELITE”
	Sponsored Project: Received funded projects from KSCST: “AUTOMATED FOOD GRAIN DRYER FOR STORAGE”, Fund Amount: 7000/-
	Reviewer: 1. Journal of Emerging Technologies and Innovative Research (ISSN: 2349-5162) Holding Member ID: 223316



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	1. 2nd International Conference on 6G Communications Networking and Signal Processing (SGCNSP) organized by Sharanbasva University, Kalaburagi, 12-13, July, 2024
Supriya Bagewadi	Paper Publications: Enhancing Texture Classification through GLCM and LBP Feature Extraction with Modified PCA Dimensionality Reduction” published in 2023 4th IEEE Global Conference for Advancement in Technology (GCAT) Bangalore, India. Oct 6-8, 2023.
Swati Kagi	Paper Publications: “A New Hybrid Optimization Algorithm for Maximizing Area Coverage in Wireless Sensor Networks” , Australian Journal of Electrical and Electronics Engineering, Taylor and Francis Ltd. 19 May 2024.
Nirupama D	Paper Publications: “Survey on Classification of Skin Diseases Using Machine Learning Techniques” 2024 3rd International conference on Power Electronics and IoT Applications in Renewable Energy and its Control (PARC)
Ayesha Heena	Patent Publication: 1. Publication titled “An Efficient Information Retrieval and Routing using AODV on TDMA in WSN, Application” no: 202341075831 dated 22/12/2023 2. Patent Publication titled “Predicting Criminal Activity: AI and ML in Crime Risk Analysis”, Application no: 202341064022 dated 06/10/2023.
	Paper Publications: Heena, A., Biradar, N. & Maroof, N. Abnormality classification using Convolutional neural network for echocardiographic images. <i>Multimed Tools Appl</i> (2023). https://doi.org/10.1007/s11042-023-17108-9
	NPTEL Course: Received Elite certificate and certificate for FDP for SWAYAM/NPTEL online course on "Cyber Security and Privacy", for NPTEL Course on Design Thinking in 2023.



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Department of Artificial Intelligence and Machine Learning
Year: 2022

Name of Staff	Achievement & Awards
Sujata Mallapur	Award: Received the Award for research Publication by Vision Group of Science and Technology (VGST) - 2022, Govt. of Karnataka
	Grants Received: <ol style="list-style-type: none"> Received the Research grant for “Personalized Health Monitoring System using Internet of Things and Machine Learning” under the Research Promotion Scheme by <i>AICTE Quality Improvement Schemes</i>. Intelligent Agriculture Monitoring System for Smart Farming Using Machine Learning Technique, <i>45th series of Student Project Programme (SPP): 2021-22</i>, Karnataka State Council for Science and Technology.
	Book Chapter: Sunita Mala, Sujata Mallapur, A Brief Analysis of Border Gateway Protocol for Internet Controlling and Malicious Attacks. International Conference on Computing, Communication, Electrical and Biomedical Systems. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-86165-0_47 , 2022.
	Patent Publication: Secured Health Monitoring System using Cloud Computing, Application No.202241006303A.
	Conference: A. N. Patil and S. V. Mallapur, "A Review on Security-Based Routing Protocols for Vehicular Ad Hoc Networks," <i>2022 5th International Conference on Contemporary Computing and Informatics (IC3I)</i> , Uttar Pradesh, India, 2022, pp. 399-405, doi: 10.1109/IC3I56241.2022.10073360.
	Journal: Sunita K and Sujata Mallapur “Optimal Trained Hybrid Classifier for Border Gateway Protocol Anomaly Detection” Accepted for the Publication in International Journal of Swarm Intelligence Research (IJSIR), (ESCI and Scopus and Compendex Indexed Journal).
Rashmi Patil	Paper Publication: <ol style="list-style-type: none"> Rashmi K H, Dr. Rekha Patil, “Cross Layer Based Congestion free Route selection in Vehicular Ad-hoc Networks,” <i>International Journal of Computer Networks & Communications</i> Vol.14, No.4, July 2022. (ISSN: 0974-9322: Online & 0975-2293: Print. Page no. 81-98. Impact factor: 1.07 Rashmi K H, Dr. Rekha Patil, “Energy Aware Cross Layer Based Clustering and Congestion Control Using Mexican Axolotl Algorithm in VANET”, <i>International Journal of Computer Networks and Applications (IJCNA)</i>, 9(6), PP: 701-711, 2022, ISSN: 2395-0455. DOI: 10.22247/ijcna/2022/217703. Impact factor: 1.43, Citation: 02



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	<p>Book Chapter Published: "Recent Advances in Computer Science ", in "National Research Conference on Engineering, Business Management Science, Humanities & Social Sciences-2022" /" Fake Face Detection Using Deep Learning", Year of Publication: 2022 ISBN/ISSN number of the proceeding: 978-93-94570-65-8, Name of the publisher: Kripa Drishti Publications.</p>
Bannamma Patil	<p>Conference Publication: Presented paper on A Survey on IOT Based in Conventional Agricultural Method in Three Day National Conference on Recent Advances in Computer Science & Engineering</p>
Supriya Bagewadi	<p>Paper Publication: Improved Densenet model for automatic categorization of brain tumors in 2022 3rd Global Conference for Advancement in Technology (GCAT) during 7th & 9th October 2022.</p>
Nirupama D	<p>Paper Publication: "Enhancing Skin Disease Segmentation with Weighted Ensemble Region-Based Convolutional Network" in Engineering Proceedings 2023,59,49. NPTEL Course: Python for Data Science, Aug. 2023.</p>



Faculty of Engineering and Technology (Exclusively for Women)
Department of Artificial Intelligence and Machine Learning
YEAR 2021

Name of Staff	Achievement & Awards
Sujata Mallapur	Reviewer: Elsevier Journal of Array etc..
	Award received: Best Kalyan Karnataka Teacher Karnataka Shikshana Seva Ratna Award
	Reviewer: ICMNWC-2021 etc..
	Grant Received: Intelligent Agriculture Monitoring System for Smart Farming Using Machine Learning Technique, <i>45th series of Student Project Programme (SPP): 2021-22</i> , Karnataka State Council for Science and Technology.
	Journal Publication: Arun Tadkal, Sujata Mallapur, Red deer optimization algorithm inspired clustering-based routing protocol for reliable data dissemination in FANETs, "Materials Today: Proceedings", Accepted for publication, Article in press. DOI: https://doi.org/10.1016/j.matpr.2021.12.527 .
	Swati S and Sujata Mallapur, "A Brief Review on Area Coverage Maximization in Wireless Sensor Networks", Design Engineering, Issue 8, PP. 11940 – 11952, 2021.
	Book Chapter: Sunita K and Sujata Mallapur, "A Brief Analysis of Border Gateway Protocol for Internet Controlling and Malicious Attacks", Springer conference in International Conference on Computing, Communication, Electrical and Biomedical Systems, 25-26 March 2021
Rashmi Patil	Patent Publication: Synthesis of E-Waste Based on Machine Learning & Artificial Intelligence Autonomous Management System for Smart Environment, Application No.202141044783 A.
	Paper Publication: Rashmi K H, Dr. Rekha Patil, "Survey on Cross Layer Approach for Robust Communication in VANET" in Springer Wireless Personal Communication (Scopus Indexed) volume 119, Issue 4, August 2021. (ISSN: 3413-3434). Impact factor: 2.2, Citation: 09
Swati Kagi	Paper Publication: "A Brief Review on Area Coverage Maximization in Wireless Sensor Networks", Design Engineering Journal, Issue 8, pp:11940-11952
Nirupama D	NPTEL Course: Swayam Course Certification on Computer Fundamentals, February 2022
	Patent Publication: "Machine Learning based recognition of patient's behaviour using hand-to-mouth gestures to assess their physical and emotional states in possible prediction using AI-Dataset". Publication date-19/8/2022