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Google Scholar:

<https://scholar.google.com/citations?user=TQiqJ1UAAAAJ&hl=en>

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Education

Sept. 2018 to Dec. 2023	Ph.D. , University of Mysore, Karnataka-India Thesis Title: Machine Learning Algorithm for the Diagnosis of Chronic Obstructive Pulmonary Diseases from Chest X-ray Images.
Dec. 2016 to Jan. 2018	PGDBA , Bangalore University, Bangalore-India
Apr. 2014 to Mar. 2016	M.Sc. Computer Science, Bangalore University, Bangalore-India
Nov. 2006 to Oct. 2010	BSc. Computer Science, Michael Okpara University, Abia State-Nigeria
May to June 2004	WASSCE , Community Secondary School Okigwe, Imo State-Nigeria

Academic and Industry Experience

Oct. 2023 to Date	Assistant Professor , Department of Computer Science and Engineering (Artificial Intelligence), Maharaja Institute of Technology Mysore-India <i>Subjects Handled:</i> Machine Learning, Computer Vision, Big Data Analytics, Digital Image Processing, Database Management Systems, Pytho for Data Visualization, and Research Methodology.
June 2019 to Oct. 2023	Research Associate , Maharaja Institute of Technology Mysore-India <i>Subjects Handled:</i> Machine Learning, Big Data Analytics, Machine Learning Projects, Python, and Mobile App development in Java.
Aug. 2018 to May 2019 Bangalore-India	Visiting Faculty (Voluntary) , Dr. Ambedkar Inst. for Mgt. Science <i>Subjects Handled:</i> Information System & Science, DBMS.
Jul. 2017 to Feb. 2018 India	Visiting Faculty (Voluntary) , St. Aloysius Degree College, Bangalore-India <i>Subjects Handled:</i> Information System & Science, DBMS.
Oct. 2014 to Mar. 2016	Teaching Assistant (Voluntary) , St. Josephs College Bangalore-India Subjects handled: Computer Fundamentals and Web Design using PHP
Oct. 2014 to Dec. 2014 India	Java Instructor (Intern) , APTECH Computer Education Bangalore-India <i>Subjects Handled:</i> Computer Fundamentals and Web Design using PHP
Jul. 2011 to Jun. 2012	Web Developer , Max-Out Resources Pvt. Ltd, Abuja-Nigeria
Feb. 2009 to Nov. 2009	High School Teacher , Community Secondary School Okigwe-Nigeria

Research Interest

Medical Imaging, Explainable AI Models, Data Science, Machine Learning, Deep Learning, and Computer Vision

Publications

- “Leveraging Transfer Learning for Efficient Diagnosis of COPD Using CXR Images and Explainable AI Techniques”, *Inteligencia Artificial* (Q3 Scopus, and SCI Indexed; CiteScore: 2.0, SNIP: 0.344), ISSN: 1137-3601, DOI: <https://doi.org/10.4114/intartif.vol27iss74pp133-151>
- “The Superiority of Fine-tuning over Full-training for the Efficient Diagnosis of COPD from CXR Images”, *Inteligencia Artificial* (Q3 Scopus, and SCI Indexed; CiteScore: 2.0, SNIP: 0.344), ISSN: 1137-3601, DOI: <https://doi.org/10.4114/intartif.vol27iss74pp62-79>
- “CX-Net: An efficient ensemble semantic deep neural network for ROI identification from Chest X-ray images for COPD diagnosis”, *Machine Learning: Science and Technology* (Q1 Scopus, and SCIE Indexed; CiteScore: 9.1, SNIP: 1.503), E-ISSN: 2632-2153, <https://iopscience.iop.org/article/10.1088/2632-2153/acd2a5/>
- “Energy-Efficient Deep Q-Network (EEDQN): Reinforcement Learning-based Approach to Efficient Routing Protocol in Wireless Internet-of-Things”, *Indonesian Journal of Electrical Engineering and Computer Science* (Q2 Scopus Indexed; CiteScore: 2.9, SNIP: 0.579), ISSN: 2502-4752, <http://doi.org/10.11591/ijeecs.v33.i2.pp971-980>
- “COPDNet: An Explainable ResNet50 Model for the Diagnosis of COPD from CXR Images,” in 2023 IEEE 4th Annual Flagship India Council International Subsections Conference (INDISCON), Mysore, India: IEEE, Aug. 2023, pp. 1–7. doi: 10.1109/INDISCON58499.2023.10270604 (Scopus Indexed).
- “xAI: An Explainable AI Model for the Diagnosis of COPD from CXR Images,” in 2023 IEEE 2nd International Conference on Data, Decision and Systems (ICDDS), Dec. 2023, pp. 1–6. doi: 10.1109/ICDDS59137.2023.10434619 (Scopus Indexed).
- “i-Net: A deep CNN model for White Blood Cancer Segmentation and Classification”, *International Journal of Advanced Technology and Engineering Exploration*, Vol 9(95) ISSN (Print): 2394-5443 ISSN (Online): 2394-7454 <http://dx.doi.org/10.19101/IJATEE.2021.875564> (Q3 Scopus Indexed; CiteScore: 2.3, SNIP: 0.399)
- “ResNet-50 vs VGG-19 vs Training from Scratch: A comparative analysis of the segmentation and classification of Pneumonia from chest x-ray images”, *Global Transaction Proceedings* (Elsevier), (Scopus Indexed) Volume 2, Issue 2, November 2021, Pages 375-381, <https://doi.org/10.1016/j.gltp.2021.08.027>
- “Semi-Supervised Labelling of Chest x-Ray Images Using Unsupervised Clustering for Ground-Truth Generation.” *Applied Engineering and Technology* 2 (3): 188–202. <https://doi.org/10.31763/aet.v2i3.1143>.
- “Effective Approach for Fine-Tuning Pre-Trained Models for the Extraction of Texts From Source Codes”, *ITM Web of Conferences*(65), eISSN: 2271-2097. <https://doi.org/10.1051/itmconf/20246503004>.

Conference Papers Presented

- “Evaluating the Feasibility of a Pre-Processing Framework for Enhanced Text Information Extraction from Source Codes” **Manuscript Presented** at the “3rd International Conference on Advances in Data-Driven Computing and Intelligent Systems”, ADCIS-2024 at BITS Pilani Goa-India, 20-21 Sept. 2024.
- “Advances in Thermal Imaging: A Convolutional Neural Network Approach for Improved Breast Cancer Diagnosis” **Manuscript Presented** at the “International Conference on Distributed Computing and Optimization Techniques”, ICDCOT-2024 at SJBIT-India, 15-16 March 2024.
- “Optimizing ResNet50 and VGG19 Networks for Accurate COPD Diagnosis Through CXR Analysis” **Manuscript Presented** at the “International Conference on Emerging Research in Computing, Information, Communication, Artificial Intelligence and Machine Learning”, ERCICAM-2024 at NITTE Meenakshi-India, 23-24 Feb. 2024.
- “ResNet-50 vs Training from Scratch: A Comparative Analysis of the Segmentation and Classification of Pneumonia from Chest X-Ray Images”. Paper presented at the International Conference on “Computing System and its Applications”, ICCSA-2021 at Acharya Institute of Technology, Bengaluru Jul. 16, 2021.

Academic Reviewer (Journal and Conference papers)

International Journal of Computer Vision (IJCV), ISSN: 1573-1405, (**Q1 Scopus** and **SCIE Indexed** International Journal)

Computers in Biology and Medicine (CIBM), ISSN: 0010-4825, (**Q1 Scopus** and **SCIE Indexed** International Journal)

Information Sciences, ISSN: 0020-0255, (**Q1 Scopus** and **SCIE Indexed** International Journal)

Machine Learning: Science and Technology (MLST), ISSN: 2632-2153, (**Q1 Scopus** and **SCIE Indexed** International Journal)

Applied Soft Computing Journal, ISSN: 1568-4946, (**Q1 Scopus** and **SCIE Indexed** International Journal)

Physics in Medicine and Biology, ISSN: 1361-6560, (**Q1 Scopus** and **SCIE Indexed** International Journal)

Indonesian Journal of Electrical Engineering and Computer Science (IJEECS)” ISSN: 2502-4752, e-ISSN: 2502-4760 (**Q2 Scopus Indexed** International Journal)

Inteligencia Artificial (IA)” e-ISSN: 1988-3064 (**Q3 Scopus Indexed** and **SCI Indexed** International Journal)

Systems and Soft Computing, e-ISSN: 2772-9419 (**Q3 Scopus Indexed** and **ESCI Indexed** International Journal)

Recent Patents on Engineering, ISSN (Print): 1872-2121 (**Q3 Scopus Indexed** and **ESCI Indexed** International Journal)

Journal of Advances in Biology & Biotechnology, ISSN: 2394-1081 (**Q3 Scopus Indexed** and **ESCI Indexed** International Journal)

International Journal of Systems Engineering (IJSE), e-ISSN: 2640-4230 (**Scopus Indexed** International Journal)

Journal of Artificial Intelligence for Medical Sciences (JAIMS), ISSN: 2666-1470, (**Scopus Indexed** International Journal)

Computational Intelligence and Learning Systems (INDISCON2023), at GSSS Institute of Engineering and Technology for Women Mysuru, KA -India, 05 – 07 August, 2023.

Machine Intelligence and Smart Systems (MISS2023) at Shiriram Institute of Information Technology (SRIIT) Gwalior, MP -India, Feb. 24 to 25, 2023.

Medical Research Archives, European Society of Medicine. Online ISSN: 2375-1924, Print ISSN: 2375-1916, PubMed ID: 101668511

Workshops Conducted and Attended

06th Aug. 2024

Resource Person at Ghousia College of Engineering, Ramanagara, Karnataka-India, for a “**National Level Workshop on Blockchain Technology and Generative AI Models**” organized by the Department of Computer Science and Engineering.

18th to Jun. 19 2023

Resource Person at Maharaja Institute of Technology Mysore, Karnataka-India, for a “**Two Day National Workshop on Android Application Development using Java**” organized by the Department of Computer Science and Engineering.

Aug. 29 to Sept. 30 2022

Resource Person at Hirasugar Institute of Technology Nidasoshi Taluq, Belagavi-India, for a “**Month Internship program on Deep learning and its applications**” organized by the Department of Computer Science and Engineering.

18 th to 20 th July 2022	Resource Person at MIT Thandavapura Mysore-India for a “ Three days National Workshop on Mobile App Development in Android ” organized by the Department of Computer Science and Engineering.
16 th to 17 th Sept 2021	Resource Person at St. Joseph’s University-India for a “ Two Day National Workshop on Deep Learning ” organized by the Department of Computer Science.
5 th to 10 th July 2021	Resource Person at MIT Mysore-India for “ One-week National Workshop on Research Methodology ” organized by the Department of Information Science and Engineering.
Jan. 2 2021	<i>Letter of Appreciation</i> from Bangalore Institute of Technology, Bangalore, for a One-Day National Webinar on “ Applications of AI ” organized by the Department of Computer Science and Engineering.
Jan. 13 2020	<i>Certificate of Participation</i> at JSS Science and Technology University, Mysuru, for a One-Day International Seminar on “ AI in Real Time: Challenges and Opportunities ” organized by the Department of Computer Applications.
25 th to 26 th Oct. 2019	<i>Certificate of Participation</i> at Amrita Vishwa Vidyapeetham, Mysuru, for a Two-Day National Workshop on “ Machine Learning Using Python ” organized by the Department of Computer Science.
3 rd Oct. 2019	Resource Person at Government Arts College for Women Salem-8, Tamil Nadu-India for “ A One-Day National Workshop on Research Writing ” organized by the English Department.
22 nd to 26 th July 2019	<i>Certificate of Participation</i> at AICTE – VTU Joint Training Programme for Teachers for a One Week Training Programme on “ Machine Learning and Deep Learning with Python Programming ” organized by VTU Human Resource Development Centre (VTU-HRDC), Centre for PG Studies, Muddenahalli, Chikkaballapur (Dist.) - 562101.
17 th to 21 th June 2019	<i>Certificate of Participation</i> at JSS Science and Technology University for the Five-Day Faculty Development Programme on “ Advances in Data Science: A Practical Approach ” organized by the Department of Information Science and Engineering.
23 rd to 27 th July. 2018	<i>Certificate of Participation</i> at Maharaja Institute of Technology Mysore for the Five Days Faculty Development Programme on “ Artificial Intelligence, Machine Learning and Deep Learning ” jointly organized by the Department of Computer Science & Engineering and Information System & Engineering.
2 nd to Apr. 16 2018	Resource Person for the “ Two Weeks National Workshop on Data Science and Machine Learning ” organized by the “AMAC Team,” Abuja Chapter, Nigeria.
7 th to 12 th Mar. 2016	Resource Person for the “ 5 days’ Workshop on Data Mining ” organized by the SJC Computer Science students, Bangalore-India.
Aug. 23 2013	Resource Person for one day workshop on “ Lateral Thinking ” organized by APTECH Computer Education Bangalore-India.

Languages and Computer Skills

Languages	English, Kannada (Basic)
Programming Languages	Java, JavaScript, Python, and PHP
Databases	MySQL, PostGRE, Oracle

Merits and Awards

Sep. 21 2024	Best Paper Award , for the paper presented at the “ 3rd International Conference on Advances in Data-Driven Computing and Intelligent Systems (ADCIS-2024) ” at BITS Pilani Goa-India.
Feb. 24 2024	Best Paper Award , for the paper presented at the “ International Conference on Emerging Research in Computing, Information, Communication, Artificial Intelligence and Machine Learning (ERCICAM-2024) ” at NITTE Meenakshi Institute of Technology, Bengaluru, in association with the Institute of Electrical and Electronics Engineers (IEEE), Bengaluru-India
Jul. 16 2021	Best Paper Award , for the paper presented at the “ International Conference on Computing System and its Applications (ICCSA-2021) ” organized by the Department of Computer Science and Engineering, Acharya Institute of Technology, Bengaluru, in association with the Technical Institute for Engineers (TIE), Bengaluru-India.
Mar. 12 2016	Certificate of Excellence , Special Achievement for “ Best Outgoing Student in PG Science ” and “ Gold Medallist ” in Computer Science, St. Joseph’s College (Autonomous) Bangalore-India.
2015 to 2016	Management Scholarship for the 2015 - 2016 academic year, St. Joseph’s College (Autonomous) Bangalore-India.
Apr., Oct. 2015 & Apr. 2016	Certificates of Merit, First Place for three consecutive semesters (II, III, and IV, respectively)
Mar. 2013 & 2014	Gold Medallist in web application competition organized by APTECH Computer Education.
May 13 2013	Outstanding Achievement at “International Students’ Day” organized by APTECH Computer Education Bangalore-India.
Dec. 15 2012	Top Finishers Medal , Bangalore Midnight Marathon (42Km) at KTPL-Whitefield Bangalore-India.
Jul. 4 2012 Abuja-Nigeria	Certificate of National Service , National Youth Service Corps,

Interests

Athletics, Cooking, Cycling, Nature, Swimming, and Travelling