



Dayananda Sagar Academy of Technology & Management

(Autonomous Institute under VTU)

Affiliated to **VTU**
Approved by **AICTE**
Accredited by **NAAC** with **A+** Grade
6 Programs Accredited by **NBA**
(CSE, ISE, ECE, EEE, MECH, CV)

Faculty Name	Dr. Shivaprasad Ashok Chikop	
Academic Designation	Associate Professor	
Educational Qualification	B.E, M. Tech, Ph. D	
Experience in Teaching & Industry	13 & 1	
Date of Joining	14-11-2022	
Official Email ID	Shivaprasad-aiml@dsatm.edu.in	
Employee ID	180671	

Educational Details

- Ph.D - at Dayananda Sagar College of Engineering, Bangalore under VTU Belgaum 2022.
- M.Tech in Dayananda Sagar College of Engineering, Bangalore under VTU Belgaum 2012.
- B.E in Basaveshwara College of Engineering, Bagalkot under VTU Belgaum 2010.

Professional Experience

• DRDO Funded project:

Project Title: Tracking Multiple Objects in Aerial Image Sequence from Unmanned Air Vehicle

PI--Dr. Krishnan Rangarajan I worked as the Junior Research Fellow (JRF) in CSE department in Dayananda Sagar College of Engineering for a duration of 5 months (September 2012---February 2013) and got promoted as Senior Research Fellow (SRF) for the duration of 9 months (March 2013---November 2013).

- **Medical Imaging Research Center:** Worked as Graduate Research Assistant in Medical Imaging Research Center (MIRC) at Department of Medical Electronics, Dayananda Sagar College of Engineering Bangalore (December 2013 --- May 2014).
- **GE- Internship:** Worked as intern in General Electricals (GE) - Global Research Center in Non- Rigid Registration (NRR) Group for 3 Months (June 2014--- August 2014).
- **Department of Electronics and Information Technology (DeitY) Funded Project:**
Project Title: Indigenous Magnetic Resonance Imaging (IMRI) – A National Mission Co-PI -- Dr. Sairam Geethanath Currently working as Graduate Research Assistant at Medical Imaging Research Centre, Dayananda Sagar College of Engineering (September 2014 --- February 2019).

- GE- Internship: Working as intern in General Electricals (GE) – GE Healthcare in reconstruction group (April- 2017--- February 2018)
- Worked as Assistant Professor at Dayananda Sagar University (March 2019- August 2021)
- Worked as Assistant Professor at Dayananda Sagar Academy of Technology and Management (November 2022- June 2025)
- Working as Associate Professor at Dayananda Sagar Academy of Technology and Management (July 2025-till date)

Publications

International Journals:

- ❖ Shivaprasad Ashok Chikop, Girish Koulagi, Ankita B Kumbara and Sairam Geethanath “A Review of Point wise Motion Tracking Algorithms for fetal MRI” Critical Reviews in Biomedical Engineering- 2017
- ❖ Shivaprasad Ashok Chikop, Sachin Anchan, Girish Koulagi, Arush H A, Shaik Imam and Sairam Geethanath “Motion Correction in Magnetic Resonance Imaging using DSLR camera” Magnetic Resonance Imaging 2018
- ❖ Darshan Halliyavar, Shwetha M P, Sharanabasavaraj, Puneeth S and Shivaprasad Ashok Chikop “Prediction and Analysis of TOP using ARIMA model” International Journal for Engineering Research and Technology – 2020
- ❖ Arush H A, Vatsalya S, Shivaprasad Ashok Chikop and Sairam Geethanath “Effects of Yoga Exercises on Calf Muscle as Validated by Magnetic Resonance Imaging” –International Journal of Yoga – 2021
- ❖ Shivaprasad Ashok Chikop, Amaresha Shridhar Konar, Nimith S L Reddy, Nithin Vajuvalli, Darshan Keelara Shivaram, Ashwini Kumnoor, Sairamesh Raghuraman, Ramesh Venkatesan and Sairam Geethanath “Cost effective, integrated in vitro phantoms for Cardiac MRI” critical reviews in Biomedical Engineering 2021
- ❖ Suma S N, Vindhya P Malagi, Shivaprasad Ashok Chikop “Resting State EEG Based Classification of Premature Internet Addicts” Korean Journal of Physiology and Pharmacology- 2023
- ❖ Aditya M N, Anvith D Nayak, Priyansh Kapadia and Shivaprasad Ashok Chikop “Fashion Recommender System: Methodology and Techniques used” Journal of Xidian University – 2023
- ❖ Shivaprasad Ashok Chikop, A S Navyashree, Adya Hs, Aryaman Misra, Mohammed Zabiullah C “Reward Shaping in Lunar Lander” Journal of Xidian University – 2023
- ❖ Shivaparsad Ashok Chikop, Bhuvan Gowda N, Deepak Nandeshwar, D Charan Raju, and Mohan S Hadadi “deteCT: Deep-Fake Image Detection for Medical Images” Journal of Xidian University – 2024
- ❖ Anubhav Sanket, Shipra Sinha, Yamini Mandagiri, Shivaprasad Ashok Chikop “Sales Forecasting and Inventory Optimization at Big Mart Using Time Series Technique” Journal of Xidian University – 2024
- ❖ C Nandini, Shiva Sumanth Reddy, Nagaraj M Lutimath, N Sandhya, Shivaprasad Ashok Chikop “Anomaly detection utilizing diffusion variational graph Neural Network optimized with spider wasp Optimizer in medical time series data” Biomedical Signal Processing and Control 2026

International Conferences:

- **Shivaprasad Ashok Chikop**, Amaresha Shridhar Konar, Nithin Vajuvalli, Ramesh Venkateshan and Sairam Geethanath “Integrated, 3D printed cost effective phantom solution for MR imaging for cardiac structure and function” ISMRM-2018
- Shaik Imam, Amaresha Shridhar Konar, Vineet Vinay Bhombore, Rajagopalan Sundaresan, **Shivaprasad Ashok Chikop**, Gul Mooris, Prachi Dubey, Sachin Jambawalikar, Ramesh Venkatesan and Sairam Geethanath “Tailored Magnetic resonance fingerprinting: optimizing

acquisition schedule and intelligent reconstruction using a block approach ” ISMRM-2018

- **Shivaprasad Ashok Chikop**, Vimal Chandran, Shaik Imam, Mauricio Antonio Reyes Aguirre and Sairam Geethanath “Application of Random Forest Regression for Fast and Robust MRF Dictionary Matching” ISMRM-2017
- **Shivaprasad Ashok Chikop**, Amaresha Shridhar Konar, Nithin Vajuvalli, Darshan Shivaram Keelara, Ashwini Kumnoor, Ramesh Venkateshan and Sairam Geethanath “A Cost-effective 3D Printed Cardiac MR Phantom” ISMRM-2017
- **Shivaprasad Ashok Chikop**, Vimal Chandran, Shaik Imam, Rashmi R Rao, Mauricio Antonio Reyes Aguirre and Sairam Geethanath “Application of Partial Least Squares Regression for Fast and Robust Dictionary Matching for Magnetic Resonance Fingerprinting” ISMRM-2016
- **Shivaprasad Ashok Chikop**, Amaresha Shridhar Konar, Nithin Vajuvalli, Darshan Shivaram Keelara, Ashwini Kumnoor, Sairamesh Raghuraman, Ramesh Venkateshan and Sairam Geethanath “A Low Cost Cardiac Phantom for Evaluation of Motion and Thermometry ” ISMRM-2016
- **Shivaprasad Ashok Chikop**, Antharikshanagar Bellappa Sachin Anchan, Arush Arun Honnedevashtana, Shaikh Imam, and Sairam Geethanath "Spatially Localized Tissue Fingerprinting (STiF)" ISMRM 2015
- **Shivaprasad Ashok Chikop**, Antharikshanagar Bellappa Sachin Anchan, Shaikh Imam, Amaresha Shridhar Konar, Rashmi Rao, Arush Honnedevashtana Arun, and Sairam Geethanath "Plug-n-Play Magnetic Resonance Fingerprinting (PnP- MRF)" ISMRM 2015
- **Chikop, Shivaprasad Ashok**, B. M. Somashekar, Raghavendra Prasad G. Shetti, and Anjan SS. "JANI–Just in Time Assistant for Necessary Insights: A Comprehensive AI-Based Personal Assistant." In 2025 International Conference on Future Technologies (ICFT), pp. 1-6. IEEE, 2025.
- Debnath, Suman, Yogita D. Bhise, Jyotheeswara Reddy Gottam, **Shivaprasad Ashok Chikop**, Mohan Sankaran, and Nagaraju Jooluri. "BOA-Ensemble: A Bobcat Optimization-Driven Ensemble Deep Learning Framework for Intrusion Detection in IIoT Environments." In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3), pp. 1-6. IEEE, 2025.
- Debnath, Suman, Santosh Appachu Devanira Poovaiah, Nosir Khurramov, **Shivaprasad Ashok Chikop**, and Sevara Sadullaeva. "KEDenNet-MEO: A Knowledge-Driven Deep Intrusion Detection Framework for VANETs with Realistic Mobility Simulation." In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3), pp. 1-6. IEEE, 2025.
- Naik, Ashitha V., Vishi Singh Bhatia, Abhishek Kumar Verma, and **Shivaprasad Ashok Chikop**. "A Cross-Attentive Multi-Scale Speech Framework for Mental Health Risk Prediction using VocalMind-Net." In 2025 2nd International Conference on Software, Systems and Information Technology (SSITCON), pp. 01-08. IEEE, 2025.
- Venkata, Seshendranath Balla, G. N. Divyaraj, Ulugbek Bobamuratov, **Shivaprasad Ashok Chikop**, Egambergan Khudoynazarov, and Jabbarov Umarbek Rustambekovich. "Energy Valley Optimized Feature Selection with CatBoost Classifier for Intelligent Industrial IoT Intrusion Detection." In 2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3), pp. 1-6. IEEE, 2025.
- Kumar, Pranjal, Rishav Anand, Sahil Raj, and **Shivaprasad Ashok Chikop**. "Survey on API Recommendation and Query Assistant Optimizer." In 2025 International Conference on Future Technologies (ICFT), pp. 1-7. IEEE, 2025.
- **Shivaprasad Ashok Chikop**, Oorja Saxena, Aahish Aayan, Hardik Kumar “Stride Sentinel Gait Base Security System” International Conference on Next-Gen Quantum and Advanced

Computing: Algorithms, Security, and Beyond (NQComp) 2026

- Pankaj Agrawal, Lavish Kansal, Noor Mohd, **Shivaprasad Ashok Chikop**, Poornima Ediga, Sowmini Bandaru “Advanced EEG Signal Processing Techniques for Accurate Diagnosis of Neurological and Psychiatric Disorders” 2nd International Conference on Big Data & Machine Learning (ICBDML) 2026
- Rajanikanth Sanku, Mahesh Recharla, Mamatha Bai BG, **Shivaprasad Ashok Chikop** “Privacy-Preserving Federated Learning Framework with Adaptive Aggregated Gradient Perturbation for IoT Healthcare Systems” 3rd International Conference on Integrated Intelligence and Communication Systems (ICIICS) 2026
- Raghunathareddy MV, Sumithra Devi KA, Prasad Maderamitla, **Shivaprasad Ashok Chikop**, Mukesh Soni “Intelligent Cooperative Spectrum Sensing and Dynamic Sharing for Cognitive Radio Enabled 5G IoT Networks” 3rd International Conference on Integrated Intelligence and Communication Systems (ICIICS) 2026

National Conferences:

- **Shivaprasad Ashok Chikop**, Amaresha Shridhar Konar, Nithin Vajuvalli, Darshan Shivaram Keelara, Ashwini Kumnoor, Sairamesh Raghuraman, Ramesh Venkateshan and Sairam Geethanath “PolyVinyl Alcohol (PVA) based Cardiac Phantom for Evaluation of Thermometry and Motion” ISMRM-Indian chapter-2016

Conference Attended

- International Society of Magnetic Resonance in Medicine (ISMRM) 2018, Paris.
- International Society of Magnetic Resonance in Medicine (ISMRM) 2016, Singapore
- International Society of Magnetic Resonance in Medicine (ISMRM) 2015, Canada
- International Society of Magnetic Resonance in Medicine (ISMRM) 2014, Italy
- 99th Radiological Society of North America (RSNA) -2013 Conference at Chicago

Awards

- Best paper Award at Advanced Multi-Disciplinary Innovations in Science & Engineering for Industry 5.0 (AMISE 5.0)
- Awarded with E.K. Zavoisky stipend from subcommittee of ISMRM Annual Meeting-2019, Canada
- Awarded with E.K. Zavoisky stipend from subcommittee of ISMRM Annual Meeting-2018, Paris
- Awarded with E.K. Zavoisky stipend from subcommittee of ISMRM Annual Meeting-2016, Singapore
- Awarded with Trainee (Educational) Stipend from Subcommittee of ISMRM Annual Meeting – 2015, Toronto, Canada.
- Change to Excel International Travel Award to attend ISMRM- 2014, Milan, Italy (Funded by Dayananda Sagar College of Engineering).
- Change to Excel International Travel Award to attend 99th Radiological Society of North America (RSNA) -2013 Conference at Chicago (Funded by Dayananda Sagar College of Engineering).

Academic Activity

- IRDC Member

- IPR Co-ordinator
- IA Co-ordinator

Faculty Development Activity/Workshops

- Faculty Enablement Program (FEP) on Agile Methodology conducted at Dayananda Sagar Academy of Technology & Management - 2026
- Faculty Enablement Program(FEP) on Machine Learning & NLP conducted at Dayananda Sagar Academy of Technology & Management – 2025
- AI for Educators conducted at Dayananda Sagar Academy of Technology & Management – 2025
- FIP On Patent Drafting & Filing conducted at Dayananda Sagar Academy of Technology & Management – 2024
- FDP on Outcome Based Education conducted at Dayananda Sagar Academy of Technology & Management – 2022

Ph.D Research Scholars

1. Mrs. Ruchita Singhania, Assistant Professor, DSATM, Bangalore

Patents

- ❖ Title:Filed a full patent on “Motion Correction of MR Images Using DSLR Camera”. Application number: E- 498/CHE/2015, Status/year: Published/2015
- ❖ Title: “Gardening Robot”, Application number: 202041055966 A, Status/year: Published/2021
- ❖ Title: “Robo Umpire”, Application number: 202041056016 A, Status/year: Published/2021
- ❖ Title: “Accident Surveillance System in Nh4 Using Video Analytics” Application number: 202141002013 A, Status/year: Published/2021
- ❖ Title: “Animal Surveillance System Using Video Analytics” Application number: 202141002027 A,
- ❖ Title: “ Ambulance with Drone Traffic Clearing System” Application number: 202341028128 A
- ❖ Title: “ AI-Enhanced Medical Image Processing System for Automated Detection and Classification of Abnormalities in Diagnostic Imaging ” Application number: 202441085016 A
- ❖ Title: “ Smart Pee Alert Device” Application number: 202441104148 A
- ❖ Title: “ A DRUG BREATH ANALYZER SYSTEM” Application number: 202541079772 A
- ❖ Title: “Animal Surveillance System Using Video Analytics” Application number: 202141002027 A

Contact Details

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