Dr. Shiju George

HOD, Associate Professor
Information Technology
Amal Jyothi College of Engineering, Kanjirapally
AICTE No : 1-447686201
KTU Id : KTU-F608
Area of Specialization: Computational Analytics

Education Summary

- Ph. D – Computational Analytics – Vellore Institute of Technology (2022)
- M.E. – Computer Science and Engineering – Anna University,Chennai (2015)
- M.S – Software Systems – BITS, PILANI (2010)
- B.E. – Computer Science and Engineering – Guru Ghasidas Central University , Bilaspur (2001)

Employment History

- HOD in Amal Jyothi College of Engineering from 2020 onwards
- Associate Professor in Amal Jyothi College of Engineering from 2018 to 2019
- Assistant Professor in Amal Jyothi College of Engineering from 2007 to 2018
- Lecturer in Amal Jyothi College of Engineering from 2004 to 2006
- Lecturer in College of Engineering Kalloopara, Thiruvalla from 2003 to 2004

Publications in Journals

- A P2P Digital Voting System for Elections in India, 2022, IEEE
- Deep Learning Techniques for Traffic Flow Prediction in Intelligent Transportation System: A Survey, 2020, Test Engineering and Management
- Fuzzy inspired Deep Belief Network for the Traffic flow prediction in Intelligent Transportation System using Flow Strength Indicators, 2020, Big Data
- Traffic Prediction using Multifaceted Techniques: A Survey, 2020, Wireless Personal Communications
- An improved Long Short-Term Memory Networks with Takagi-Sugeno Fuzzy for Traffic Speed Prediction Considering Abnormal Traffic Situation, 2020, Computational Intelligence

Publications in Conferences

- A P2P Digital Voting System for Elections in India, 2022, International Conference on Computing, Communication, Security and Intelligent Systems (IC3SIS-2022)
- Welkienet : Network of Autonomous Micro UAVs, 2022, National Level Technical Project

Exhibition
- Intelligent system for the aggregation of logistics and transportation services, 2018, ICCISCON
- Ubiquitous Creation of Electronic Medical Record and Clinical Data Management Using Tablet PC, 2017, International Conference on Global Innovations in Technology and Sciences (ICGITS)
- Smart Irrigation System for an Automated DAM: An IoT application, 2017, national conference on Recent Trends in Engineering & Technology NCRTET 2017, at Believers Church Caarmel Engineering College
- Smart Home automation using Wi-Fi Fingerprinting, 2017, national conference on Recent Trends in Engineering & Technology NCRTET 2017, at Believers Church Caarmel Engineering College
- Intelligent Enterprise Resource Mining for Business Management & Prediction, 2015, 4th International Conference on Cloud Computing Computer Science and Advances in Information Technology (ICCCCIT 2015)
- An Inductive Approach to Predict Personality & Conduct Appraisal Using Advanced Semi Supervised Multi-labeled Mining & Learning Technique, 2015, 4th International Conference on Cloud Computing Computer Science and Advances in Information Technology
- Secure Android Model Based on Voice Recognition for Laboratory Test Result Entry, 2013, 6th International Conference On Semantic E-Business and Enterprise Computing and 2nd International Conference on Cloud Computing & Services Engineering (CLUSE)
- Business Process Reengineering of Bacteriology Laboratory Using Wi-Fi Enabled Tablet, 2013, International Conference on Global Innovations in Technology and Sciences (ICGITS)
- Agent Based Query Optimization KB For Heterogeneous, Autonomous & Distributed Multi-Database, 2011, Annual International Conference on Emerging Research Areas (AICERA)
- Efficient Information Embedding Scheme For Color Images With High Security Using Steganography , 2009, National Conference on Research in Engineering (NACORE)

Patent / Copyright

- Patents Filed for ADVANCE TAXONOMY FOR MICRO FACIAL EXPRESSION AND FORGREY DISCRIMINATION from Chennai on the year 2023(202341035243)
- Patents Filed for ANALYSIS OF URBAN TRAFFIC DATA AS ARBITRARY GRAPH STRUCTURE USING NEURAL NETWORKS from Chennai on the year 2023(202341028305 A)
- Patents Filed for IOT-BASED WATER QUALITY MONITORING FOR FILTER TESTING from Chennai on the year 2022(202241045029)

Training programs attended

- ChatGPT & AI Tools for Educators, in-line with OBE, St Joseph's College (Autonomous), Irinjalakuda in association with The Kerala State Higher Education Council, Online Faculty Development Program from 2023-07-19 to 2023-07-26
- 5 Days FDP on "New Age Technologies", VIT, AP, Online from 2023-03-28 to 2023-04-01
- 5-Days National Seminar on Emerging Trends in Intelligent Computing, School of Computer Science and Engineering, VIT-AP University, Amaravati, Online from 2023-03-14 to 2023-04-18
- Administrative Training Program OBE-Computation & Attainments and Accreditation Workspace

- in AES, Amal Jyothi College of Engineering, Amal Jyothi College of Engineering from 2022-11-08 to 2022-11-08
- 5-day Face-to-Face UHV-II FDP, All India Council for Technical Education (AICTE), RV College of Engineering, Bengaluru from 2022-09-05 to 2022-09-09
- FDP on Artificial Intelligence, Lourdes Matha College of Science and Technology in association with IEDC, Lourdes Matha College of Science and Technology from 2022-08-26 to 2022-08-31
- BIG DATA - HADOOP, IMARTICUS LEARNING, Online from 2022-08-26 to 2022-08-27
- Cybersecurity - Secure Coding, TCS, Online from 2021-11-26 to 2021-11-26
- Cybersecurity - Identity & Access Management, TCS, Online from 2021-11-24 to 2021-11-24
- Cybersecurity - Ethical Hacking, TCS, Online from 2021-11-22 to 2021-11-22
- Cybersecurity - Ransomware, TCS, Online from 2021-11-17 to 2021-11-17
- Cybersecurity - Enterprise-level architecture, TCS, Online from 2021-11-15 to 2021-11-15
- Deep Learning for Natural Language Processing, Department of Computer Science and Engineering,, Lourdes Matha College of Science and Technology from 2021-11-15 to 2021-11-19
- NAAC and NBA Accreditation , Educorp Centre for Research and Advanced Studies Pvt. Ltd., Online from 2021-11-14 to 2021-11-14
- Inculcating Universal Human Values in Technical Education,5-day online FDP, All India Council for Technical Education(AICTE), Online from 2021-11-08 to 2021-11-12
- Gender Sensitization " Finding the real me among you ", Department of IT and Women Cell, Online from 2021-03-08 to 2021-03-08
- Opportunities for Freshers in the data analytics Industry, IMARTICUS LEARNING, Online from 2020-11-05 to 2020-11-05
- FDP of Data Science by AICTE Training And Learning (ATAL) Academy, School of Studies in Engineering and Technology Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.)., Online from 2020-10-12 to 2020-10-16
- AICTE sponsored STTP on BLOCKCHAIN FUNDAMENTALS, Dept of CSE, Saintgits College of Engineering, Kottayam, Kerala, Online from 2020-08-24 to 2020-08-29
- Python for Data science, Imarticus Learning Pvt. Ltd. , Online from 2020-07-18 to 2020-07-19
- Administrative Training Program - Moodle LMS Management, Marian College Kuttikkanam (Autonomous), Amal Jyothi College of Engineering from 2020-07-16 to 2020-08-04
- How to get research grants from UGC, AICTE, MBITS and SMBS, Kothamangalam, Online from 2020-06-09 to 2020-06-09
- AI in Classroom Teaching , DEpt. of Science , J.V.M's Degree College, Mumbai in association with The Magic Data, Online from 2020-06-06 to 2020-06-06
- Deep Learning based Video Analytics for Surveillance Applications, IEEE Computer Society Kerala Chapter , Online from 2020-05-28 to 2020-05-28
- How to write a Technical Research Paper, Dept. of EEE, Ahalia School of Engineering and Technology, Palakkad, Online from 2020-04-22 to 2020-04-22
- Deep Learning Training of Trainers programme, Additional Skill Acquisition Programme (ASAP), Higher Education Department, Government of Kerala, at Government Engineering College Barton Hill, Thiruvananthapuram from 2019-09-17 to 2019-09-20
- Administrative Training Program Essentials of OBE and NBA / NAAC documentation, Amal Jyothi College of Engineering, Amal Jyothi College of Engineering from 2019-08-26 to 2019-08-26
- Hands on Artificial Intelligence and Machine Learning - ASAP TVM, ASAP, Higher Education Department, Govt. of Kerala, MAria ranni Center , Trivandrum from 2018-12-17 to 2018-12-22

- Hands on Artificial Intelligence and Machine Learning, ASAP, Higher Education Department, Govt. of Kerala, Ahalia School of Engineering & Technology from 2018-09-20 to 2018-09-25
- LabVIEW, Department of ECE, AJCE, Amal Jyothi College of Engineering from 2018-05-28 to 2018-06-08
- Machine Learning and Deep Learning, TCS, Online from 2018-05-18 to 2018-05-20
- 47th ISTE National Annual Convention, Saintgits College of Engineering, Saintgits College of Engineering from 2018-01-27 to 2018-01-29
- IoT, ML and DL, TCS, TCS from 2017-08-23 to 2017-10-23
- Two day Pre-Conference workshop on " Soft Computing ", Dept. of Software and Systems Engineering , VIT, Vellore , Tamilnaidu from 2016-09-15 to 2016-09-16
- Network Security & Green Computing, Academic Interface Campus Connect Program Organized by TCS Infopark, Cochin from 2013-05-14 to 2013-05-14
- Information Security Management , TCS, TCS cochin from 2013-05-14 to 2013-05-14
- A-VIEW Training with Certification, AJCE in association with Amrita E-Learning Lab, AJCE from 2012-12-14 to 2012-12-14
- Aakash for Education, Dept of CSE, AJCE from 2012-11-10 to 2012-11-11
- National Workshop on opportunities of Government funded R & D projects for academic institutions , Team Tech Research and Amal Jyothi College of Engineering , AJCE from 2010-11-26 to 2010-11-27
- Orientation Program For University & College Teachers On Student Welfare Activities, MG University , Department of student services, Kottayam from 2010-10-12 to 2010-10-12
- Soft Computing, Cloud Computing & Mobile Computing, Academic Interface Program TCS sponsored Tata Consultancy Services, TVM from 2010-07-24 to 2010-07-25
- ICEFOSS, Dept. of CSE & free software cell, Angamaly, FISAT from 2010-04-19 to 2010-04-21
- Open Source Tools For Engineering, Dept of CSE & MCA, Saintgits College of Engg from 2009-10-30 to 2009-10-30
- High Performance Computing, Dept. of CSE , College Sponsored FISAT , Centre for high performance computing, Angamaly from 2009-10-16 to 2009-10-16
- FDP on "Relevance of Mathematics in Engineering", Basic Science Department , Amal Jyothi college of Engg, Kanjirappally, Kottayam, Kerala from 2009-08-17 to 2009-08-22
- MHRD sponsored - A Refresher Course on " Advanced Database Systems", Dept of CSE , NIT Warangal from 2009-06-15 to 2009-06-27
- Intellectual Property Rights in the Knowledge Economy, KSCSTE & TIFAC sponsored. Kerala State Council for Science, Technology & Environment, TVM from 2009-06-12 to 2009-06-12
- Professional Excellence, Dept of CSE, St. Joseph of College Engg. & Technology, Pala from 2009-06-10 to 0000-00-00
- Linux Networking and System Administration, Dept of CSE, St. Joseph of college Engg.& Technology, Pala from 2008-12-09 to 2008-12-12
- Neo Areas of Research in Computing , ISTE Kerala Section & Dept of CSE, Amal Jyothi college of Engg, Kanjirappally, Kottayam, Kerala from 2008-11-26 to 2009-12-02
- MHRD-AICTE, FDP on "Computer Architecture and Design", NIT - Rourkela, NIT - Rourkela from 2008-10-29 to 2008-11-11
- Modern Trends in IT Industry, Research & consultancy cell & Career Guidance & placement unit, Sarabhai Institute of science technology, TVM from 2008-09-24 to 2008-09-24
- FDP on Algorithm and Complexity, Dept of CSE , NIT- Calicut from 2008-07-06 to 2008-07-19
- Teaching Computer Network Effectively, Dept of CSE , AICTE Sponsored at IIT Madras from

2008-06-16 to 2008-06-27

- Digital Signal Processing & Neural Networks, Dept of ECE, ISTE sponsored, Viswajyothi College of Engg., Vazhaakulam, Kerala from 2008-06-04 to 2008-07-10
- Web Architecture Programming, Dept of CSE, DTE, and Govt. of Kerala sponsored at RIT, Govt. Engg. College from 2008-01-21 to 2008-02-02
- Externally funded Projects, ISTE Sponsored Amal Jyothi college of Engg, Kanjirappally, Kottayam, Kerala , AJCE from 2008-01-18 to 2008-01-18
- Evolving Trends in Electronics & Communication Engineering, STE Kerala Section, Organized by Amal Jyothi college of Engg, Kanjirappally ,Kottayam, AJCE from 2008-01-07 to 2008-01-14
- Digital Asset Management, ISTE chapter sponsored Amal Jyothi college of Engg, Amal Jyothi college of Engg, Kanjirappally, Kottayam, Kerala from 2007-12-11 to 2007-12-11
- Image Processing & Research Methodologies, St Gits College of Engg., Department of CSE, St Gits College of Engg., Department of CSE, Kottayam from 2007-08-14 to 0000-00-00
- Database Management System, IIITM-K Technopark, IIITM-K Technopark from 2004-08-20 to 2004-08-20

As an invited speaker in seminars/conferences/workshops

- Universal Human Values - Student Induction Program(SIP), Amal Jyothi college of Engg, Kanjirappally, Kottayam, Kerala, Amal Jyothi college of Engg, Kanjirappally, Kottayam, Kerala from 2022-10-28 to 2022-10-28
- Mentoring in Higher Educational Institution, Academic Retreat program initiated by IQAC, St George College, Aruvithura, St. George College, Aruvithura from 2022-06-03 to 2022-06-03
- SMYM program on the topic " Career in IT Engineering", Amal Jyothi college of Engg, Kanjirappally, Kottayam, Kerala, Online from 2021-06-11 to 2021-06-11
- Role of Education in Entrepreneurship, Kerala Management Association (KMA), Bishop Jerome Institute, Kollam from 2014-03-22 to 0000-00-00
- Computer Networks and Data Communication, Department of Information Technology, St. Dominic, College Kanjirapally from 2010-07-15 to 0000-00-00

As a resource person in :

- Webinar on Quantum Computing, Professional Activity Club (PAC), BIT, Durg, , Online from 2023-04-15 to 2023-04-15
- 5 Days FDP on "New Age Technologies", SCOPE-VIT, Andra Pradesh, Online from 2023-03-28 to 2023-04-01
- Internet of Things (Medical Image and Signal Analysis, AICTE Training and Learning Academy (ATAL) by the Department of ECE, AJCE, Amal Jyothi College of Engineering from 2021-01-11 to 2021-01-15
- Young Entrepreneurs, EAC, Sponsored by NIMAT, DST, Govt. of India, through EDII, Ahmadabad Programme, AJCE from 2012-06-01 to 2013-07-31
- Best Practices in Software Project Management & Current Developing Methodologies, AICTE Sponsored Short Term Training Programme , Dept. of Information technology,AJCE, AJCE from 2009-05-11 to 2009-05-20

Funded Projects

- FOODSWIPE@AJCE as PI, Fund ASCII-I2U AJCE from 2022-07-01 to 2023-06-30
- Android based fully automated water conservation and management system as PI, Fund KSCSTE from 2021-12-10 to 2022-06-10
- Herd Ai as PI, Fund ASCII-I2U AJCE from 2021-07-01 to 2022-06-30
- Kovikare as PI, Fund ASCII-I2U AJCE from 2021-07-01 to 2022-06-30
- BENKI as PI, Fund ASCII-I2U AJCE from 2019-07-01 to 2020-07-30
- Assistive Bot for Children with Autism as Advisor, Fund Kerala Startup Mission from 2018-02-05 to 2019-03-30

Faculty as member of Expert Committee

- ASCII-I2U : Circuit Branch , Amal Jyothi College of Engineering as Member from 2018-06-01 to 2019-05-30

Consultancy/Extension Services Provided

- Science Working Model Project Design, Alfeen Public School, 22-08-2016
- Recruitment Board, Alfeen Public School, 11-06-2014
- Post Term Evaluation of the Project Dessemination of Organic Manures Among the women, H.H.Matha Amritanandamay Devi Trust, 24-10-2010
- Mid-Term Evaluation of the Project Roof Rain Water Harvesting Ferro Cement Units, Navodaya Mahila Samajam, 06-06-2009
- Term Evaluation of the project Grameen Vikas Andolan, Gandhiji Study Centre, 20-09-2008
- Mid Term Evaluation of the project Roof Rain Water Harvesting, WE HELP , 06-05-2008

Programs Organized

- Flutter from 26-12-2021 to 31-12-2021
- Live introduction of Apple devices by CDNS TECHNOLOGY INDIA PVT LTD from 03-12-2020 to 03-12-2020
- Soft Launch of AJCE Data Science Club in association with IMARTICUS Learning from 05-11-2020 to 05-11-2020
- IT ALUMNI WEBINAR from 27-07-2020 to 30-07-2020
- World Wildlife Day from 03-02-2018 to 03-03-2018
- "Inspiring Young Masterminds" for the benefits of Yuva Mastermind participants from 28-01-2013 to 28-01-2013
- "Emerging Trends And Innovations In IT Curriculum" funded by ISTE Kerala Section and the Dept. of information technology, AJCE from 03-12-2008 to 06-12-2008
- MG University Silver Jubliee celebration sponsored seminar on "Graph Theory and

Cryptography" at Amal Jyothi College of Engg, Dept of IT from 08-08-2008 to 08-08-2008

Positions Held

- Pursuing HOD from 01-01-2019 , Head of the Department
- Pursuing ASCII Coordinator from 03-07-2007 , Conducting I2U (Innovation Idea Unleashed project Contest for Amalities since 2007.
- Pursuing Academic Council Member from 06-03-2007 , Academic Council member: As HOD Department of IT and as ASCII Project coordinator.
- Faculty Advisor to Students' Council from 23-06-2006 to 31-12-2011, Role of the Advisor : Guiding Student Council Member, Organizing events like AZURE, ARENA, ARTS and SPORTS

Current Responsibilities

- HIC- IT, from 01-01-2019, to 31-12-2019, Head Incharge - Department of IT
- Pursuing HOD - Department of Information Technology , from 01-01-2019, , Head of the Department
- Academic Council Member
- Dept. Blog Administrator
- Dept. Innovative Projects Coordinator
- Ph.D. Guide at KTU
- Member- IEEE, ISTE

Specialized Trainings

- Face-to-Face UHV-II FDP by AICTE, RV College of Engineering, Bengaluru, 2022
- UHV Refresher 1 FDP by AICTE, ONLINE, 2022
- 5-day online FDP Inculcating Universal Human Values-I in Technical Education organized by AICTE, ONLINE, 2021
- Learn to Design your own Solar Home System, ONLINE, 2020
- Moodle Site Creation, ONLINE, AJCE, 2020
- DATA MINING, ONLINE, 2020
- Introduction to DBMA, ONLINE, 2020
- AI-ML, IIT Palakad, 2019
- DEEP LEARNING PART-1, ONLINE, 2019
- ARTIFICIAL INTELLIGENCE, ONLINE, 2019
- Trainer for Additional Skill Acquisition Programme, Government of Kerala, ASAP Kerala, 2018
- Certified as IBM Certified Database Associate, DB2 Fundamentals. Scored 83.5%, NIT Warangal, AP, 2009

Areas of Interest

- Computational Intelligence & Predictive Analytics
- IoT & Intelligent Systems
- Machine Learning & Mining
- Knowledge-based Systems
- Artificial Intelligence

Awards and Achievements

- AJCE BEST FACULTY, awarded AJCE
- AJCE TOP PERFORMING FACULTY, awarded AJCE
- AJCE TOP PERFORMING FACULTY, awarded AJCE
- AJCE BEST FACULTY AWARD, awarded AJCE
- AJCE BEST FACULTY AWARD, awarded AJCE

Membership in Professional Bodies

- IEEE - Yearly(93921716)
- IAENG - Life Time(275794)

Contact Info

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