DR. THAFSEELA KOYA POOLAKKACHALIL

SENIOR ACADEMICIAN PROFILE

Enduring challenging assignments with a reputed educational institute to utilize acquired skills of over 14 years in accomplishing organizational growth objectives

📍 **Calicut, Kerala, India**

📞 **+91-8594066567**

✉ **thafseelariyas@gmail.com**

CORE STRENGTH

Teaching & Academics	★★★★★
Training & Development	★★★★★
Accreditation & Quality Assurance	★★★★★
Performance Evaluation	★★★★★
Career Guidance	★★★★★
Project Management	★★★★★
Liaison & Coordination	★★★★★
Team Leadership	★★★★★

EDUCATION

Ph.D. (Digital Image Processing)
National Institute of Technology, Durgapur, India
2019

M Tech (Computer Science)
Banasthali University, India
2012

B Tech (Computer Science)
Calicut University, India
2005

TRAINING & CERTIFICATIONS

- Completed ISTE approved SF-STTP/FDP Programme on "Machine Learning for Cyber Security" organized by Toc H Institute of Science and Technology, Ernakulam, Kerala, 2023
- Attended the 3rd International MEC Conference on Big Data and Smart City – ICBDSC

PROFILE SUMMARY

- Hold excellent academic credentials among others with flair for teaching & learning
- Proven ability in dealing with difficult students and evaluating examination procedures
- Self-directed, enthusiastic educator with a passionate commitment to student development and the learning experience
- Possess outstanding communication skills; present information in a variety of ways.
- Representative of multiple committees on academic development across professional career
- High mentoring ability with excellent communication skills. A person with analytical mindset and decision making ability

CAREER TIMELINE

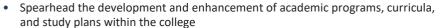| Dec 2021 - Nov 2023	Aug 2021 – Nov 2021	Feb 2017 – Dec 2019	Sep 2009 – Jan 2017
AWH Engineering College, Vice Principal/HOD/ Associate Professor	University of People, USA Assistant Professor	National Institute of Technology, Durgapur, PhD Perusal	Caledonian College of Engineering, Oman Lecturer

WORK EXPERIENCE

Vice Principal/HOD/Associate Professor • Dec 2021 – Nov 2023
AWH Engineering College
Key Responsibilities:

- Spearhead the development and enhancement of academic programs, curricula, and study plans within the college
- Collaborate with faculty members, staff, and students to oversee the ongoing improvement of college academic programs
- Lead the pursuit of essential accreditation processes and related activities to ensure compliance with industry standards
- Drive initiatives to elevate the college's academic standing, fostering a culture of excellence
- Extend the college's mission and vision across all departments, ensuring alignment with overarching institutional goals
- Work with the placement cell to enhance career opportunities for students, forging connections with prospective employers
- Participate in Academic Council meetings to strategize and implement enhancements to college facilities and academic offerings
- Liaise with external consultancies to organize workshops, providing students with valuable industry insights
- Focus on effectively managing the instructional process, evaluating student performance, and overseeing grading procedures
- Involved in the development and maintenance of the college website, ensuring accurate and up-to-date information
- Manage the administrative aspects of the college aimed at optimizing operational processes
- Engage in scholarly activities, publishing peer-reviewed articles within the area of specialization
- Participate in seminars, conferences, and other developmental activities to stay abreast of industry trends and contribute to overall institutional growth
- Render academic advising and guidance to students on program learning outcomes, curriculum planning, and career development
- Conduct lectures for B.Tech and M.Tech students across diverse subjects including Management of Software Systems, Discrete Mathematical Structures, Computer Organization and Architecture, Artificial Intelligence, Digital Image Processing, and Database Management Systems Lab

Assistant Professor • Aug 2021 – Nov 2021
University of People, USA

- **Attended the International Conference on Networks & Advances in Computational Technologies - NetACT 17**
- **Attended the International Conference on Inventive Research in Computing Applications - ICIRCA 2018**

PUBLICATIONS

- Indonesian Journal Of Electrical Engineering And Informatics• Vol. 7• No.3• pp. 564-576, ISSN 2089-3272. SCOPUS.
- Summative Stereoscopic Image Compression Using Arithmetic Coding
- International Journal Of Engineering Research And Technology• VOL. 12• NO. 4•PP. 486-493, ISSN 0974-3154. SCOPUS.
- Symbols Frequency Based Image Coding For Stereoscopic Image
- Journal of Theoretical And Applied Information Technology (JTAIT) • VOL 97 • ISSUE 04• Feb 2019. SCOPUS.
- Stereoscopic Image Compression Using Curvelet
- International Journal of Computer Science And Information Security (IJCSIS) • VOL 16 • NO. 10 • October 2018
- Novel Hybrid Lossy Image Compression Model using Run Length Coding and Huffman Coding
- International Journal Of Computer Science And Information Security (IJCSIS) • VOL. 15• NO. 9• Sep 2017
- Symbols Frequency based Image Coding for Compression
- The International Conference On Inventive Research In Computing Applications (ICIRCA 2018) • 11-12 JULY 2018 • RVS College Of Engineering & Technology • Coimbatore
- Presented a paper on Image Processing titled" Analysis of Stereoscopic Image Compression using Arithmetic Coding and Huffman Coding"
- Paper published in IEEE conference proceedings with ISBN number(ISBN No:978-1-5386-2456-2)
- NETACT17 Conference• International Conference On Networks & Advances In Computational Technologies • Jul 20-22, 2017• Mar Baselios College Of Engineering & Technology, Trivandrum, India
- Presented a paper on Image Processing titled" Analysis of Application of Arithmetic coding on DCT and DCT-DWT Hybrid Transforms of Images for Compression"
- Published in IEEE conference proceedings with ISBN number (ISBN No:978-1-5090-6590-5)
- Published the paper in IEEE XpLore
- ICBDSC CONFERENCE • The 3rd International Mec Conference on Big Data And Smart City• March 15-16, 2016• Mecit College,Seeb,Oman
- Presented a paper on Image Processing titled" Comparative Analysis of Lossless Compression Techniques in Efficient DCT-Based Image Compression System Based on Laplacian Transparent Composite Model and an Innovative Lossless Compression Method for Discrete-Color Images"

Key Responsibilities:

- Contributed to the development and enhancement of course curricula, ensuring alignment with academic standards and industry requirements
- Designed instructional materials, lesson plans, and assessments to engage students effectively
- Delivered engaging lectures and conducted interactive class sessions for under-graduate and/or postgraduate courses
- Employed diverse teaching methodologies to cater to varied learning styles and foster critical thinking among students
- Engaged in independent and collaborative research activities within the field of expertise
- Provided academic advising and mentorship to students, guiding them in program selection, career planning, and research pursuits
- Conducted fair and timely assessments of student performance, including examinations, projects, and assignments

Content Writer • Mar 2021 – May 2021

Sree Narayana Guru Open University, Calicut India

Key Responsibilities:

- Prepared course material on Operating Systems, Data Structures, and Cloud Computing

PhD Perusal • Feb 2017 – Dec 2019

National Institute of Technology, Durgapur, India

Key Responsibilities:

- Involved in research, publication of research journal papers, and Conference papers
- Focused on synopsis and thesis submission including Viva-voce

PREVIOUS ASSIGNMENTS

Lecturer
Caledonian College of Engineering, Oman | Sep 2009 – Jan 2017

Part-Time Lecturer
Waljat College of Applied Sciences, Oman | Aug 2008 – Aug 2009

Ad-hoc Lecturer
National Institute of Technology, Calicut | July 2006 – March 2007

Faulty Assistant
Qatar Aeronautical College, Qatar | Dec 2005 – Jul 2006

Guest Lecturer
IHRD, Calicut, India | Jun 2005 – Dec 2005

PROJECTS

- Computer aided segmentation of liver lesions in CT scans using cascaded convolusional neural networks and genetically optimized classifier
- Artificial Intelligence Based Teleop-thalmology Application For The Diagnosis Of Diabetic Retinopathy
- Handwritten Malayalam Character Recognition System
- Leaf Disease Detection
- Weapon Detection In Real Time CCTV Videos Using Deep Learning
- Mental Health Detection Using Wearables
- Artificially Minted : NFT From AI-Generated Art
- Fake News Detection Using Machine Learning
  Blockchain-Based Secure Healthcare Application For Diabetic-Cardio Disease Prediction In Fog Computing
- Darkweb Sentinel: Credential Breach Detection
- Travelista: A Personnalised Trip Planner
- ASD Detection Using Machine Learning
- Health Care Encryption System Using Modular Encryption Standard
- Smart Online Voting System
- Exploring Application Level Semantic For Data Compression
- Voice Based Email System For Blind
- IOT Based Digital M-Parivahan
- Unlock Mind In Speech Web App Using Librosa And Machine Learning
- Smart Cart System Based On Andriod Smartphone And QR Code Decryting Technique
- Detection Of Spam Mail And Avoid-ance Of DOS Attacks Using Machine Learning Algorithms

- Published in IEEE conference proceedings with ISBN number (IEEE Catalog Number: CFP16C41-POD ISBN (Print-On-Demand): 978-1-4673-9585-4 ISBN (Online): 978-1-4673-9584-7)
- Published the paper on Image processing in IEEE XpLore (INSPEC Accession Number: 15955357, DOI: 10.1109/ICBDSC.2016.7460360, Publisher: IEEE)
- OQNHE CONFERENCE • 3rd Conference On Quality Management And Quality Enhancement In Higher Education• February 24-25 , 2015• Crown Plaza In Oman
- International Conference On Cloud Computing: Theory And Applications • February 24-25, 2014 • German University Of Technology, Oman

PERSONAL DETAILS

Date of Birth: 17 Feb 1982

Languages Known: English, Malayalam, Hindi, and Arabic

Nationality: Indian

- CNN Architecture For Diabetics Classification
- E-Learn- Learning Management System App
- FTSI System
- Virtual Local Store
- Intelligent And Safe Medication Box
- Covid Detection From X-Ray Images
- Style Loft: An E-Commerce App With Virtual Trial Rooms
- Emergency Patient Care System Using Chatbot
- Veterinary Hospital Management
- Data Driven Web-Based Application - Platform Used – Javascript, External Api's, Mapping, Xml Configuration File & Schema
- Web-Based Application - Platform Used – Php, Mysql, Xhtml, Javascript
- Desktop Monitoring - Platform Used – Java
- Message Sending - Platform Used – Java
- Chatting - Platform Used – Java
- Mail Sending - Platform Used – Java
- Camouflage-Encryption And Steganography Software - Platform Used – C++

PAPER PUBLICATIONS

- Indonesian Journal Of Electrical Engineering And Informatics• Vol. 7• No.3• pp. 564-576, ISSN 2089-3272. SCOPUS•Summative Stereoscopic Image Compression Using Arithmetic Coding
- International Journal Of Engineering Research And Technology• VOL. 12• NO. 4•PP. 486-493, ISSN 0974-3154. SCOPUS•Symbols Frequency Based Image Coding For Stereoscopic Image
- Journal of Theoretical And Applied Information Technology (JTAIT) • VOL 97 • ISSUE 04• Feb 2019. SCOPUS•Stereoscopic Image Compression Using Curvelet
- International Journal of Computer Science And Information Security (IJCSIS) • VOL 16 • NO. 10 • October 2018•Novel Hybrid Lossy Image Compression Model using Run Length Coding and Huffman Coding
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- Published in IEEE conference proceedings with ISBN number (IEEE Catalog Number: CFP16C41-POD ISBN (Print-On-Demand): 978-1-4673-9585-4 ISBN (Online): 978-1-4673-9584-7) •Published the paper on Image processing in IEEE XpLore (INSPEC Accession Number: 15955357, DOI: 10.1109/ICBDSC.2016.7460360, Publisher: IEEE)
- Presented a paper on Image Processing titled" Analysis of Application of Arithmetic coding on DCT and DCT-DWT Hybrid Transforms of Images for Compression" •Published in IEEE conference proceedings with ISBN number (ISBN No:978-1-5090-6590-5) •Published the paper in IEEE XpLore
- Presented a paper on Image Processing titled" Analysis of Stereoscopic Image Compression using Arithmetic Coding and Huffman Coding" •Paper published in IEEE conference proceedings with ISBN number (ISBN No:978-1-5386-2456-2) Conferences and paper publication.