Dr. Mohamed Sirajudeen Yoosuf

M.E., Ph.D. (Information and Communication Engineering)

Assistant Professor – Cyber Security & Information Security

Department of Mathematics and Computer Science, Modern College of Business and Science (MCBS), Muscat, Sultanate of Oman

Research Fellow (Post-Doctoral Research Fellowship), INTI International University, Malaysia (Aug 2026 – Dec 2028)

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PROFESSIONAL PROFILE

Cyber security academic with over four years of university teaching and five years of funded research experience (SERB–DST, Government of India), currently serving as Assistant Professor in the Department of Mathematics and Computer Science at Modern College of Business and Science (MCBS), Muscat, and appointed Research Fellow at INTI International University, Malaysia (26 August 2026 – 31 December 2028). Ph.D. from Anna University, Chennai, on improving the security and efficiency of cloud-based Electronic Document Management Systems – covering data-integrity auditing, homomorphic encryption and secure deduplication.

Teaches OQF Level 6–8 and postgraduate courses in Application Security, Computer Forensics, System Programming and Programming Languages with hands-on labs using Burp Suite, OWASP Juice Shop, Wireshark, Autopsy, FTK Imager, EnCase and Sleuth Kit; recognised as MCBS Lecturer of the Year (Creative Faculty) 2025–2026. Research spans AI-driven intrusion detection for IoT, healthcare and Industry 4.0, OT/critical-infrastructure security, phishing detection, blockchain-based trust and privacy, and cloud/fog security – with 50+ publications (Scopus h-index 7; Google Scholar h-index 8), a TRC-funded project as Principal Investigator, completed Ph.D. supervision, and active international collaborations with the UK, Saudi Arabia, UAE and Canada. A Registered Patent Agent (India) who has supported 100+ inventors in protecting their innovations.

KEY HIGHLIGHTS

- **Teaching:** 4+ years as Assistant Professor (VIT-AP University, India & MCBS, Oman); cyber security courses ISEC 3340 Application Security, ISEC 4330 Computer Forensics, SWE 3003 Information and System Security; student feedback up to 98.62% (AY 2025–26).
- **Research output:** 50+ publications – SCI journals (Q1: 7, Q2: 6, Q3: 3, Q4: 2), 20 international conference papers, 12 book chapters; Scopus: 48 documents, 154 citations, h-index 7; Google Scholar: 251 citations, h-index 8, i10-index 7.
- **AY 2025–26 alone:** 20 research outputs – 6 journal articles (incl. Scientific Reports and Emerging Science Journal, Q1), 4 book chapters (Elsevier, Springer) and 10 IEEE conference papers.
- **Funding:** Principal Investigator – DigiCert CMS (TRC Block Funding, OMR 12,520, approved Dec 2025); PI – SheHealth (Sorbonne University Abu Dhabi, USD 4,150).
- **Research Fellowship:** Research Fellow, INTI International University, Nilai, Malaysia (QS World University Rankings 2027: 406) – 26 Aug 2026 to 31 Dec 2028, with research funding in collaboration with INTI colleagues, support for publications and opportunities to supervise postgraduate research.
- **Supervision:** 1 Ph.D. scholar completed (viva-voce 21 Sept 2025) and 1 ongoing; 25+ undergraduate and 5+ postgraduate students guided to Scopus/SCI publications and design patents.
- **Recognition:** MCBS Lecturer of the Year (Creative Faculty) 2025–2026; Best Research Award 2022–23, VIT-AP University.
- **IP & innovation:** Registered Patent Agent (IN/PA: 3896); 1 granted utility patent, 3 design registrations; former Technology Transfer Officer, VIT-AP University (150+ patent applications processed in AY 2023–24).

CYBER SECURITY AREAS OF EXPERTISE

Network & IoT Security	AI/ML-based intrusion detection systems (IDS), DDoS detection, honeypot fusion, lightweight IDS for IoT devices, distributed multi-layer IDS for healthcare, dual-layer IDS for Industry 4.0, insider-threat analytics
Application & Web Security	OWASP Top 10, penetration testing (SQL injection, CSRF, brute force), CAPTCHA analysis, phishing URL detection, SMS spam detection, secure programming
Digital Forensics	Disk and memory forensics, evidence acquisition and imaging, case-based investigation (Autopsy, FTK Imager, EnCase, Sleuth Kit, Wireshark), cyber law (Oman Cyber Law)
Cloud, Fog & Data Security	Public auditing and data-integrity verification, homomorphic encryption, secure deduplication, Cramer-Shoup cryptosystem, trust management and SLAs for cloud brokers, forgery document detection
Blockchain, Privacy & Trust	Blockchain-based EMR migration, certificate verification (DigiCert CMS), privacy-centric signature classification, blockchain for IoT/IoMT, e-governance and land registration
OT & Critical Infrastructure	OT cybersecurity readiness (NIST CSF and maturity models, GCC context), homeland security and critical-infrastructure protection using deep learning, industrial automation security
Security Governance & IP	Cyber law and ethics, AI-driven cyber attacks, intellectual property rights, patent drafting and technology transfer, ABET / OQF curriculum alignment

TECHNICAL SKILLS

Security Testing Tools	Burp Suite, OWASP Juice Shop, Wireshark
Digital Forensics Tools	Autopsy, FTK Imager, EnCase, The Sleuth Kit, Wireshark
Systems & Debugging	Linux (virtual lab environments), shell scripting, strace, GDB, system programming tools
Programming	C, C++, Java, Python, Assembly (NASM); Google Colab
AI for Security	Machine learning and deep learning (ensemble ML, CNN, GAN/VAE, reinforcement learning, NLP, federated learning) for intrusion, phishing and anomaly detection
Cloud, IoT & Platforms	Private cloud deployment (8-node Eucalyptus cloud), fog/edge computing, Arduino, Raspberry Pi, IoT and drone technology, Hadoop MapReduce
Cryptography & Blockchain	Homomorphic encryption, Cramer-Shoup cryptosystem, multi-key homomorphic encryption, blockchain consensus, NFTs
Frameworks & Standards	OWASP, NIST Cybersecurity Framework, Oman Cyber Law, Oman Qualifications Framework (OQF), ABET accreditation criteria, OAAA
Teaching Technology	MS Teams (recorded sessions), EduOasis LMS, online compilers and assembler simulators, virtual labs

PERSONAL DETAILS

Name	Dr. Mohamed Sirajudeen Yoosuf	**Nationality**	Indian
Date of Birth & Age	17-April-1992 / 34 Years	**Religion**	Islam
Gender	Male	**Marital Status**	Married
Father Name	J Yoosuf	**Language Proficiency**	English (Fluent) Tamil (Fluent / Mother Tongue)
Correspondence Address	Flat No. 305, Apartment No. 2668, Majan 3, Way 5001, Ghala (Near Centara Hotel), Muscat, Sultanate of Oman	**Permanent Address**	Door No. 30, Hameempuram North Street, Melapalayam, Tirunelveli, Tamil Nadu, India – 627005

1. ACADEMIC QUALIFICATIONS

All degrees were earned in Engineering in full-time programmes, specialising in Computer Science. The Ph.D. from Anna University, Chennai, focused on cloud-based electronic document management system security, along with a Master of Engineering (M.E.) in Computer Science and Engineering and a Bachelor of Technology (B.Tech.) in Information Technology – providing a strong foundation in both theory and practical security applications.

Degree	Specialization	Year of Award & Mode	College / University	% and Class	QS World Ranking 2025
Ph.D.	**Information and Communication Engineering** **Thesis:** Improving the Security and Efficiency of Cloud based Electronic Document Management System (E-DMS) **Attested Degree:** Link	May 2022 (Full-Time)	Anna University, Chennai, India	-NA-	University: 383rd Dept./Subject: 251-300
M.E.	**Computer Science and Engineering** **Attested Degree:** Link **Consolidated Mark Sheet:** Link	May 2015 (Full-Time)	Sri Venkateswara College of Engineering, Anna University, Chennai	77.5% First Class	University: 383rd Dept./Subject: 251-300
B.Tech.	**Information Technology** **Attested Degree:** Link **Consolidated Mark Sheet:** Link	May 2013 (Full-Time)	Regional Center of Anna University, Tirunelveli, Anna University, Chennai	76.1% First Class	University: 383rd Dept./Subject: 251-300

2. TEACHING AND RESEARCH EXPERIENCE

Over four years of teaching experience and five years of research experience in Computer Science and Engineering, with contributions to student mentorship and research development at reputable institutions in India, Oman and Malaysia.

S. No.	Institution	Position / Title	From	To	Duration	QS World Ranking 2025*
1.	INTI International University, Nilai, Negeri Sembilan, Malaysia	**Research Fellow** (Post-Doctoral Research Fellowship) Concurrent with MCBS appointment	26.08.2026	31.12.2028	Ongoing (2 Yrs 4 Mo tenure)	QS 2027: 406 QS 2026: 509
2.	Modern College of Business and Science, Muscat, Sultanate of Oman	**Assistant Professor** Department of Mathematics and Computer Science	01.09.2024	Current	2 Years	QS 5 Star Rating *
3.	VIT-AP University, Amaravati Campus, Andhra Pradesh, India	**Assistant Professor** School of Computer Science and Engineering	01.03.2022	25.08.2024	2 Years 5 Months	University: 791-800 Dept./Subject: 110
4.	Sri Venkateswara College of Engineering, Chennai, Tamil Nadu, India	**Full-Time Research Scholar** Anna University, Chennai	02.03.2020	28.02.2022	2 Years	University: 383rd
5.	Sri Venkateswara College of Engineering, Chennai, Tamil Nadu, India	**Senior Research Fellow (SRF)** (SERB – DST, Govt. of India) Anna University, Chennai	01.04.2019	29.02.2020	11 Months	University: 383rd

S. No.	Institution	Position / Title	From	To	Duration	QS World Ranking 2025*
6.	Sri Venkateswara College of Engineering, Chennai, Tamil Nadu, India	**Junior Research Fellow (JRF)** (SERB – DST, Govt. of India) Anna University, Chennai	17.03.2017	31.03.2019	2 Years	University: 383rd
7.	Sri Venkateswara College of Engineering, Chennai, Tamil Nadu, India	**Full-Time Research Scholar** Anna University, Chennai	05.01.2016	16.03.2017	1 Year 2 Months	University: 383rd

* QS World University Rankings 2025, except INTI International University (QS 2026 and 2027 editions shown). MCBS is not ranked in the QS World University Rankings; it holds a QS 5 Star Rating.

Role Highlights

Research Fellow, INTI International University, Malaysia (26 Aug 2026 – 31 Dec 2028): Appointed by the Vice-Chancellor (Ref. IIU/HR/JSP/SYA/25979/26, dated 26 August 2026) under the university's research fellowship programme to produce quality research outputs and enhance research activities and standards. The fellowship provides research funding for collaborative projects with INTI colleagues, financial support for research dissemination and publications, and opportunities to supervise postgraduate research. Working with a faculty host on research-cluster activities, organisation of research symposia and academic conferences, research consultancy, development and review of academic/research programmes, and guest lectures.

Assistant Professor, MCBS, Muscat (Sept 2024 – Present): Teaches OQF-aligned undergraduate and postgraduate courses – Application Security, Computer Forensics, System Programming and Tools, Programming Languages and postgraduate courses ITEC 5337, ITEC 5340 and ITEC 5310 – with hands-on labs (OWASP Juice Shop, Burp Suite, Wireshark, Autopsy, FTK Imager). Member of the Curriculum Committee; contributed to new specializations in Cyber Intelligence and Blockchain, Digital Transformation and DevOps; ABET and OAAA accreditation work; academic advisor; Principal Investigator of the TRC-funded DigiCert CMS project; mentors UG/PG research leading to Q1 journal and IEEE conference publications.

Assistant Professor, VIT-AP University, India (Mar 2022 – Aug 2024): Taught Cloud Computing, Information and System Security, Data Structures and Algorithms, Computer Networks, Internet of Things, Mobile Application Development, Design and Analysis of Algorithms and Information Retrieval Techniques. Supervised Ph.D. scholars and UG students to Scopus-indexed publications and design patents; Research Committee member; in charge of the High-Performance Computing Lab; served as Technology Transfer Officer (TTO) – drafted the university's first IP policy, led the V-Launch Pad 2024 startup competition and facilitated 150+ patent filings with the IIEC.

Research Scholar / SRF / JRF, SVCE – Anna University (Jan 2016 – Feb 2022): Doctoral research on secure cloud storage and electronic document workflows under the SERB–DST sponsored project – designed lightweight cryptographic and fog-centric auditing schemes and homomorphic-encryption-based deduplication to ensure confidentiality, integrity and availability with reduced latency; results published in Q1–Q3 journals. Assisted in drafting funding proposals (SERB–DST), set up the research environment, supported laboratory sessions and mentored UG/PG students on cloud computing, cyber security and IoT projects.

3. TEACHING AND LEARNING IN CYBER SECURITY

Over four years of teaching, I have observed that students engage best through active learning. Security courses are therefore delivered through interactive activities, hands-on labs with industry tools, realistic case studies, industry-aligned projects and collaborative learning to enhance participation and understanding, while emphasising ethics and cyber law.

3a. Courses Delivered

Semester	Subject Handled	Course File**	University / College
Summer I 2026	COSC 2350 – System Programming and Tools ISEC 4330 – Computer Forensics	COSC 2350 ISEC 4330	Modern College of Business and Science, Muscat, Oman

Semester	Subject Handled	Course File**	University / College
Spring 2026	COSC 2350 – System Programming and Tools (2 Sections) CPT 325 – Programming Languages (2 Sections) ISEC 4330 – Computer Forensics ITEC 5310 – Postgraduate Course (M.Sc.)	COSC 2350 CPT 325 ISEC 4330 ITEC 5310	Modern College of Business and Science, Muscat, Oman
Fall 2025	ISEC 4330 – Computer Forensics ISEC 3340 – Application Security COSC 2350 – System Programming and Tools (2 Sections) CPT 325 – Programming Languages ITEC 5340 – Postgraduate Course (M.Sc.)	ISEC 4330 ISEC 3340 COSC 2350 CPT 325 ITEC 5340	Modern College of Business and Science, Muscat, Oman
Summer I 2025	CPT 325 – Programming Languages COSC 2350 – System Programming and Tools	CPT 325 COSC 2350	Modern College of Business and Science, Muscat, Oman
Spring 2025	ISEC 4330 – Computer Forensics ISEC 3340 – Application Security ISEC 4320 – Independent Security Architecture and Control COSC 2350 – System Programming and Tools CPT 275 – Advanced Programming Techniques	ISEC 4330 ISEC 3340 ISEC 4320 COSC 2350 CPT 275	Modern College of Business and Science, Muscat, Oman
Fall 2024	ISEC 4330 – Computer Forensics ISEC 3340 – Application Security COSC 2350 – System Programming and Tools (2 Sections) CPT 275 – Advanced Programming Techniques CPT 182 – Programming in C ITEC 5337 – Software Application Development (Postgraduate)	ISEC 4330 ISEC 3340 COSC 2350 CPT 275 CPT 182 ITEC 5337	Modern College of Business and Science, Muscat, Oman
Short Summer II 2023-24	CSE3003 – Cloud Computing	COSC 3003	VIT-AP University, Andhra Pradesh, India
Winter 2023-24	SWE3003 – Information and System Security CSE3004 – Design and Analysis of Algorithm (Only Lab)	SWE 3003 CSE 3004	VIT-AP University, Andhra Pradesh, India
Fall 2023-24	CSE2001 – Data Structures and Algorithms	CSE 2001	VIT-AP University, Andhra Pradesh, India
Fast Track Fall 2023-24	CSE3003 – Computer Networks (Including Lab)	CSE 3003	VIT-AP University, Andhra Pradesh, India
Winter 2022-23	CSE4011 – Internet of Things	CSE 4011	VIT-AP University, Andhra Pradesh, India
Fall 2022-23	CSE2001 – Data Structures and Algorithms (Including Lab)	CSE 2001	VIT-AP University, Andhra Pradesh, India
Long Summer 2021-22	CSE4002 – Mobile Application Development (Including Lab)	CSE 4002	VIT-AP University, Andhra Pradesh, India
Winter 2021-22	CSE0303 – Information Retrieval Techniques (Master Course)	CSE 0303	VIT-AP University, Andhra Pradesh, India

** Detailed course files, including assessments and student performance data, are confidential and can be reviewed upon request through official academic channels.

 Innovative teaching practices implemented for Sophomore, Junior and Senior classes (OQF Levels 6, 7 and 8) in the Sultanate of Oman are detailed in Section 3b.

3b. Field-focused Innovative Cyber Security Teaching Practices (Oman)

ISEC 3340 – Application Security (OQF Level 7)

- Prepared detailed course Syllabus (ISEC 3340) aligned with industry standards and OQF requirements.
- Delivery Plan of ISEC 3340 – Application Security.
- Hands-on labs with OWASP Juice Shop and Burp Suite.
- Conducting penetration testing (SQLi, CSRF, brute force) on a deliberately vulnerable testing website.
- Controlled, educational demonstration of a CSRF attack to illustrate common web application vulnerabilities and how they can be exploited – conducted strictly within ethical and legal boundaries.

- Detailed discussion on CAPTCHA versions; general discussion on Artificial Intelligence based cyber attacks.
- Tools used: Burp Suite, OWASP Juice Shop.
- Discussion on cyber law, AI cyber-attacks and ethics.
- Guest lectures by security experts.
- Industry-aligned Project Statement.

ISEC 4330 – Computer Forensics (OQF Level 8)

- Prepared detailed course Syllabus (ISEC 4330) aligned with industry standards and OQF requirements.
- Delivery Plan of ISEC 4330 – Computer Forensics.
- Hands-on digital forensics labs using realistic simulations and real-world forensic case data and analysis questions.
- Incorporated forensic case-based teaching (e.g., Jean.biz case study) to enhance practical understanding.
- Tools used: Autopsy, FTK Imager, EnCase, Wireshark, Sleuth Kit.
- Integration of cyber law with cyber forensics (discussion on Oman Cyber Law).
- Formulated industry-aligned Project Statement to prepare students for real-world challenges and jobs in cyber forensics.
- Organized guest lectures by digital forensic experts to bridge the academia–industry gap.

COSC 2350 – System Programming and Tools (OQF Level 6)

- Prepared course Syllabus (COSC 2350) with respect to OQF requirements.
- Delivery Plan of COSC 2350 – System Programming and Tools.
- Virtual Linux lab environment; tool-based, project-driven experiential learning (Linux system programming, shell scripting, Wireshark) for system monitoring and vulnerability assessment.
- Hands-on labs with the latest tools: introduced advanced system programming and debugging utilities such as strace and GDB.
- Industry-aligned Project Statement and Written Notes.

CPT 325 – Programming Languages (OQF Level 7)

- Prepared detailed course Syllabus (CPT 325) and Delivery Plan.
- Comparative study of programming languages using online tools; benchmarking of the Hello World program in various languages.
- Introduced students to https://tio.run/#assembly-nasm and https://exuanbo.xyz/assembler-simulator/.
- Hands-on activities on Google Colab; datatype comparison study on C, C++, Java and Python.
- Tools used: Online C, C++, Java, Python and Assembly Language Compilers.
- Research-based Assignment Statement, research-based Project Statement and Written Notes.

CPT 182 – Programming in C (OQF Level 5)

- Scaffolded lab-based learning: structured lab activities (Set 1, Set 2, Set 3) progressing from basic to applied programming; students first write logic manually, then execute in a C compiler, focusing on conditional statements, loops and problem solving (CLO4).

Practices continued / introduced in AY 2025–26 (UG and PG courses)

- Responsible use of AI tools as learning aids in student projects, with proper acknowledgement and originality checks.
- Standard technical writing and documentation practices (IEEE format) introduced from sophomore level.
- Research-intensive teaching at postgraduate level (ITEC 5337, ITEC 5340, ITEC 5310) – PG student work (Mr. Ahmed Al-Busaidi) published in Scientific Reports (Q1), 2026.
- All class sessions recorded in MS Teams (available 24×7), weekly digital written notes, and timely delivery of materials, assignments and projects through EduOasis.

3c. Student Feedback and Teaching Recognition

- **MCBS Lecturer of the Year (Creative Faculty) 2025–2026** – for innovatively integrating AI approaches into teaching, supported by strong student feedback (awarded 10 May 2026).
- Annual performance review AY 2024–25 (MCBS): overall rating “Meeting Expectations”.

Student feedback (official department records):

Semester	Course (Section)	No. of Students	Student Feedback
Fall 2025	COSC 2350 (D1 / D2)	25 / 28	92.52% / 92.70%
Fall 2025	CPT 325 (E1)	28	93.17%
Fall 2025	ISEC 3340 (E1)	19	86.87%
Fall 2025	ISEC 4330 (D1)	29	96.40%
Fall 2025	ITEC 5340 (A1) – PG	15	93.10%
Spring 2026	COSC 2350 (D1 / E1)	29 / 25	87.70% / 85.71%
Spring 2026	CPT 325 (D1 / E1)	34 / 30	85.99% / 94.08%
Spring 2026	ISEC 4330 (D1)	33	85.20%
Spring 2026	ITEC 5310 (A1) – PG	14	98.62%
Summer I 2026	COSC 2350 (E1) / ISEC 4330 (D1)	11 / 27	Awaited
Fall 2024	COSC 2350 (D1 / E1)	–	100% / 99.51%
Fall 2024	CPT 182 / ISEC 3340 / ISEC 4330	–	93.12% / 87.28% / 89.37%
Spring 2025	COSC 2350 (D1 / E1)	–	81.15% / 97.49%
Spring 2025	ISEC 3340 / ISEC 4330	–	97.49% / 96.93%
Summer I 2025	COSC 2350 / CPT 325	–	92.04% / 94.53%

Teaching load AY 2025–26: Fall 2025 – 5 UG + 1 PG class; Spring 2026 – 5 UG + 1 PG class; Summer I 2026 – 2 UG classes (3 hrs/week each).

3d. Curriculum and Programme Design

- **Cyber Intelligence and Blockchain specialization:** assisted the Department of Mathematics and Computer Science in framing the lab and infrastructure requirements for new undergraduate specializations – (i) Cyber Intelligence and Blockchain, (ii) Digital Transformation, (iii) DevOps and Automation. [Mar 2025]
- **Master of Science in Digital Transformation (MDT):** assisted in designing the programme structure (new master's programme, yet to launch at MCBS, Muscat), including international and national benchmarking, market analysis, credit distribution, course sequencing and CLO–PLO mapping. [Feb 2025]
- **Curriculum Committee Member,** Department of Mathematics and Computer Science, MCBS – contributed to the design and review of course structures, learning outcomes and assessment strategies aligned with the Oman Qualifications Framework (OQF). [Oct 2024 – Current]
- Assisted Computer Science faculty at MCBS in revising Course Learning Outcomes (CLOs) and syllabi to ensure alignment with OQF level requirements. [Dec 2024 – Feb 2025]

3e. Cyber Security Certifications and Continuing Education

S. No.	Certification / Course	Issuer	Period	Status
1	ISC2 Candidate (valid till Sep 2026)	ISC2 – via Credly	Sep 2025	Member
2	Cyber Threat Management	Cisco Networking Academy	Nov 2025	Certified
3	Network Defense	Cisco Networking Academy	Nov 2025	Certified
4	Endpoint Security	Cisco Networking Academy	Oct 2025	Certified
5	Introduction to Cybersecurity	Cisco Networking Academy	Oct 2025	Certified
6	One Week Summer Training on OpenGauss Relational Database Management System	Huawei	Aug 2025	Certified
7	Registered Patent Agent Examination 2019 (IN/PA: 3896)	Indian Patent Office	2019	Qualified

S. No.	Certification / Course	Issuer	Period	Status
8	Eight Week NPTEL Course on "Privacy and Security in Online Social Media" Instructor: Prof. Ponnurangam Kumaraguru, IIIT Delhi	NPTEL	Jul–Oct 2017	Elite
9	Eight Week NPTEL Course on "Cloud Computing" Instructor: Prof. Soumya Kanti Ghosh, IIT Kharagpur	NPTEL	Aug–Oct 2017	Elite
10	Eight Week NPTEL Course on "Introduction to Data Analytics" Instructors: Prof. Nandan Sudarsanam & Prof. Ravindran, IIT Madras	NPTEL	Jul–Sep 2017	Elite

Professional development AY 2025–26 (MCBS PMS): subject-matter domain, teaching & learning, research methodology, soft & leadership skills, and technology tools – plus participation in five knowledge-sharing events.

4. RESEARCH SUPERVISION AND STUDENT GUIDANCE

4a. Ph.D. Guidance (2 Full-Time Ph.D. Scholars)

Name of the Scholar	Title of the Research	Mode & Place	Tenure	Status
Mr. Ahmad Abubakar Mustapha (22PHD7073)	**Thesis:** Improving Homeland Security and Safeguarding Critical Infrastructure through Machine Learning Techniques	Full-Time, VIT-AP University, India	Jan 2022 – Sept 2025	Completed the viva-voce on 21 September 2025 (Role: Guide; Board of Examiners constituted vide Office Order dt. 17.09.2025)
Mr. D D Shivaprasad (22PHD7130)	**Research Area:** E-Governance & Blockchain Technology	Full-Time, VIT-AP University, India	Sept 2022 – Current	Comprehensive viva completed on 17 June 2024

4b. Ph.D. Scholar Research Outcomes (2022 – 2026)

Scholar	Year	Project Title	Outcome
Mr. D D Shivaprasad (22PHD7130)	2023 & 2024	Privacy-Centric Signature Classification for Secure Educational Certificate Authentication	Published in Security and Privacy Journal (Q2) – Link
Mr. Ahmad Abubakar Mustapha (22PHD7073)	2022 – 2024	Crowd Monitoring and Controlling System for Homeland Security Improvement	Published in Proceedings on Engineering (Q3) – Link
Mr. Ahmad Abubakar Mustapha (22PHD7073)	2022 – 2024	Exploring the efficacy and comparative analysis of one-stage object detectors for computer vision: a review	Published in Multimedia Tools and Applications (Q1) – Link
Mr. Ahmad Abubakar Mustapha (22PHD7073)	2022 – 2026	Enhancing Entertainment Through Reinforcement Learning: Applications in Gaming	Published in International Journal of Computer Games Technology (2026), Art. 3031640 – DOI
Mr. Ahmad Abubakar Mustapha (22PHD7073)	2022 – Current	Implementing Deep Learning Approaches to Enhance Homeland Security and Critical Infrastructure	Ongoing research

All scholars: VIT-AP University, Andhra Pradesh, India.

4c. Postgraduate and Undergraduate Guidance and Outcomes (2022 – 2026)

Student(s)	Institution	Year	Project Title	Outcome
Mr. Ahmed Al-Busaidi (Post-Graduate)	Modern College of Business and Science, Muscat, Oman	2025–26	Hybrid Blockchain Migration Framework: Transforming Traditional Databases into Blockchain Solutions for Electronic Medical Records	Published in Scientific Reports (Q1), 16, Art. 7348, Feb 2026 – DOI
Mr. Yasser Al Alawi, Mr. Manaf Al Lamki, Mr. Bhavesh Pahilajani (Under-Graduate)	Modern College of Business and Science, Muscat, Oman	2025	Lightweight Intrusion Detection on IoT Devices using Machine Learning Techniques	Published in IEEE ICRITO 2025, Noida (Scopus Indexed) – DOI

Student(s)	Institution	Year	Project Title	Outcome
Ms. Bayan Al Bahri, Ms. Maiyasa Al Malki, Ms. Malaak Al Ghailani (Under-Graduate)	Modern College of Business and Science, Muscat, Oman	2025	Smart Home Automation using IoT Devices	Scopus Indexed Conference (Communicated & Under Review)
Mr. Raiyan Al Wahaibi (Under-Graduate)	Modern College of Business and Science, Muscat, Oman	2025	House Price Prediction Using Machine Learning	Published in IEEE ICRITO 2025 (Scopus Indexed) – DOI
Ms. Rawnaq Al Aufi (Under-Graduate)	Modern College of Business and Science, Muscat, Oman	2025	SMS Spam Detection using Naïve Bayes and Logistic Regression	Published in IEEE ICRITO 2025 (Scopus Indexed) – DOI
Mr. Sai Suchith Kurra, Ms. Likhitha Rayana (Under-Graduate)	VIT-AP University, Andhra Pradesh, India	2024–26	DL-IDS: A Dual-Layer Intrusion Detection System with Ensembled Machine Learning Models for Industry 4.0	Published in International Journal on Artificial Intelligence Tools (2026) – DOI
Mr. Balla Rakesh, Mr. Konda Harsha (Post-Graduate)	VIT-AP University, Andhra Pradesh, India	2024	Identifying non-Latin language from transliterated texts using Natural Language Processing	Presented at ICSDET 2025, UTAS Al Mussanah (extended to Q4 journal)
Mr. Suchith Kurra, Ms. Likhitha Rayana (Under-Graduate)	VIT-AP University, Andhra Pradesh, India	2023 & 2024	Advanced Intrusion Detection System (IDS) with Honeypot Fusion for Proactive Threat Detection and Mitigation	Scientific Reports (Q1) – Major Revision
Mr. Suchith Kurra, Ms. Likhitha Rayana (Under-Graduate)	VIT-AP University, Andhra Pradesh, India	2024	LIDS Security Shield: Lightweight Intrusion Detection System (IDS) for Detecting DDoS Attacks on IoT Environment	Accepted in Int. J. of Grid and Utility Computing (Q3) – Link
Mr. Suchith Kurra, Ms. Likhitha Rayana (Under-Graduate)	VIT-AP University, Andhra Pradesh, India	2023	Analyzing Artificial Intelligence based Intrusion Detection System in Detecting DDoS Attack	Scopus indexed conference paper – Link
Ms. Mahalakshmi (Under-Graduate)	VIT-AP University, Andhra Pradesh, India	2023	Colorectal cancer prediction via histopathology segmentation using DC-GAN and VAE-GAN	Scopus indexed journal – Link
Mr. G.S.S Harshith, Mr. K Rishi Reddy, Mr. Dasari Shiva, Mr. Dasari Srikanth, Mr. Raghunath (Under-Graduate)	VIT-AP University, Andhra Pradesh, India	2024	Snake Detection and Catching Device	Design Patent – Granted – Certificate
Mr. Sai Saketh, Mr. Arun Mandava, Mr. Gamidi Sanjay (Under-Graduate)	VIT-AP University, Andhra Pradesh, India	2023	PET AI Robot	Design Patent – Granted – Certificate
Mr. Venkata Thanush (Under-Graduate)	VIT-AP University, Andhra Pradesh, India	2023	PreSlate: Education Tool Kit	Design Patent – Filed (415919-001), awaiting grant
Mr. Rinish Reddy, Ms. Sadhwika Rachamalla (Under-Graduate)	Vardhaman College of Engineering, Hyderabad, India	2022	Convolutional Neural Network Based Intrusion Detection System and Predicting the DDoS Attack	Scopus indexed conference paper – Link
Mr. Marumoju Dheeraj, Mr. Manan Pathak (Under-Graduate)	Vardhaman College of Engineering (Autonomous), Hyderabad, India	2022	Television Price Prediction Based on Features with Machine Learning	Scopus indexed conference paper – Link

Over the last four years: 25+ undergraduate and 5+ postgraduate students guided. Academic Advisor to 40+ undergraduate advisees at MCBS (see Section 6c).

5. RESEARCH ACTIVITIES

Engaging in research is essential to delivering high-quality, current lectures. To stay abreast of emerging technologies in cyber security and computer science, I collaborate with national and international researchers; in the last five years I have published more than 50 research articles in reputed journals, conferences and book chapters indexed in WoS and Scopus.

5a. Research Metrics and Publication Summary (Full list in Annexure I)

Metric	Google Scholar	Scopus (Author ID 57224522771)
Citations	251 (247 since 2021)	154 (cited by 152 documents)
h-index	8	7
i10-index / Documents	7	48 documents

SCI Indexed Journals				Scopus Indexed Publications*	International Conferences	Book Chapters	Granted Patent
Q1	Q2	Q3	Q4				
7	6	3	2	48	20	12	1 Utility (IPO) 3 Design (IPO)

* SCI, conference and book chapter publications included (as per Scopus author profile). Q1 count includes DML-IDS, HyDNN and Fractional White Smell Agent Optimization (Emerging Science Journal) and the Scientific Reports article; two further 2026 journal articles (Int. J. of Computer Games Technology; Int. J. on Artificial Intelligence Tools) are not included in the quartile columns.

AY 2025–26: 20 research outputs – 6 journal articles, 4 book chapters and 10 conference papers.

5b. Cyber Security Research Themes and Representative Work

Theme	Representative Outputs
AI-driven Intrusion Detection (IoT, Healthcare, Industry 4.0)	DML-IDS (Emerging Science Journal, Q1, 2025); DL-IDS (Int. J. on AI Tools, 2026); Lightweight IDS on IoT Devices (IEEE ICRITO 2025); LIDS Security Shield (IJGUC, Q3); IDS with Honeypot Fusion (Scientific Reports – major revision); CNN-based IDS for DDoS; AI-based IDS for DDoS (Springer).
Phishing, Spam & Insider-Threat Detection	HyDNN – hybrid deep learning for phishing URL detection (Emerging Science Journal, Q1, 2026); SMS Spam Detection (IEEE ICRITO 2025); Insider Abnormal Activities feature identification (IEEE ICIPTM 2026); cryptocurrency fraud detection (ICSPBT 2024).
OT & Critical Infrastructure Security	OT Cybersecurity Readiness in Critical Infrastructure – Global Frameworks and GCC Applications (IEEE ICIPTM 2026); Ph.D. thesis guided on homeland security and critical infrastructure; IoT & cybersecurity mechanisms for industrial automation (CRC book chapter).
Cloud & Fog Data Security	LDuAP dual auditing protocol (J. Ambient Intelligence & Humanized Computing); lightweight fog-centric auditing (Concurrency & Computation); FogDedupe with multi-key homomorphic encryption (J. Sensors); trust management for cloud brokers (IET Communications); Cramer-Shoup based secure deduplication; granted patent on probabilistic data structure for virtualization.
Blockchain, Privacy & Trust	Hybrid blockchain migration for EMR systems (Scientific Reports, Q1, 2026); privacy-centric signature classification for certificate authentication (Security and Privacy); DigiCert CMS – TRC-funded certificate verification framework (PI); forgery document detection; blockchain for IoT / IoMT / land registration; quantum computing for securing private information.

5c. Funded Projects and Proposals Submitted

To establish a research laboratory, it is important to acquire funds from internal institutes (seed funding), ministries and international organisations. Since completing my Ph.D., the following proposals have been submitted:

S. No.	Title of the Proposal	Funding Agency / Role	Cost	Status	Period / Submission
1	DigiCert CMS: A Digital Transformation Framework for Certificate Management and Verification in Sultanate of Oman	TRC Block Funding **Role:** Principal Investigator **Country:** Sultanate of Oman	OMR 12,520	Approved (Dec 2025) & Ongoing	Nov 2025 – Nov 2027

S. No.	Title of the Proposal	Funding Agency / Role	Cost	Status	Period / Submission
2	SheHealth: AI-Driven Maternal Health Literacy and Postpartum Care in the Middle East	Empowering Women Through Culture and Community, Celebrating Women's Voices initiative, Sorbonne University Abu Dhabi **Role:** Principal Investigator **Country:** Abu Dhabi, UAE	USD 4,150	Accepted Ongoing research	June 2025 – March 2026
3	HajjShield: An AI-Driven Application to Enhance Hajj Health Card Initiatives	Hajj Research Grant, Ministry of Higher Education and the Saudi National Institute of Health (SNIH) **Role:** International Collaborator **PI:** Prof. Alaa Khadidos, King Abdulaziz University **Country:** Kingdom of Saudi Arabia	SAR 1,18,046	Submitted	May 2025
4	Effective Measures on Homeland Security and Critical Infrastructure: A Deep Learning Approach	United Kingdom Research and Innovation (UKRI), Department for Science, Innovation and Technology (DSIT), United Kingdom **Role:** International Collaborator **PI:** Dr. Shitharth Selvarajan, Leeds Beckett University, Leeds, UK **Country:** United Kingdom	GBP 44,132	Rejected after the second round (presentation)	Feb 2025

Earlier: Received Intramural Research Fund (PG-IMR) from Sri Venkateswara College of Engineering (2015) – see Section 5g.

5d. International Research Collaboration (last 3 years; excluding India and Oman)

During the initial phase of my research career most collaborations were within India; I have since established strong international research networks. Selected collaborations:

Researcher(s)	Collaborating Institute	Year	Project / Output	My Responsibility
Dr. Shitharth Selvarajan & Dr. Alaa O. Khadidos & Dr. Adil O. Khadidos	Leeds Beckett University, UK & King Abdulaziz University, Jeddah, Saudi Arabia	2025 & 2026	Enhancing Entertainment Through Reinforcement Learning: Applications in Gaming	Co-author and Ph.D. research guide of the first author. Published in Int. J. of Computer Games Technology (2026)
Dr. Olfat M. Mirza & Dr. Alaa O. Khadidos & Dr. Adil O. Khadidos	Saudi Arabia (with co-authors from Germany and Oman)	2025 & 2026	DL-IDS: A Dual-Layer Intrusion Detection System with Ensembled ML Models for Industry 4.0	Mentoring the student authors, model design and manuscript preparation. Published in Int. J. on Artificial Intelligence Tools (2026)
Dr. Sri Vigna Hema (Post-Doctoral Researcher)	School of Engineering, University of Guelph, ON, Canada	2024 & 2025	Analysis on Microbial Food Safety in Canada	Implementation of deep learning techniques for microbial classification and analysis of experimental results.
Dr. Sri Vigna Hema (Post-Doctoral Researcher)	School of Engineering, University of Guelph, ON, Canada	2025	DigiCert CMS: A Digital Transformation Framework for Certificate Management and Verification in Sultanate of Oman	Proposal approved under TRC Block Funding (Dec 2025). Leading the project as Principal Investigator.
Dr. Shitharth Selvarajan (Assistant Professor)	Department of Cyber Security, Leeds Beckett University, Leeds, UK	2025	DigiCert CMS: A Digital Transformation Framework for Certificate Management and Verification in Sultanate of Oman	Proposal approved under TRC Block Funding (Dec 2025). Leading the project as Principal Investigator.
Dr. Shitharth Selvarajan (Assistant Professor)	Department of Cyber Security, Leeds Beckett University, Leeds, UK	2025	Effective Measures on Homeland Security and Critical Infrastructure: A Deep Learning Approach	Drafted the proposal for research funding under UKRI / DSIT, United Kingdom.

Researcher(s)	Collaborating Institute	Year	Project / Output	My Responsibility
Prof. Alaa Khadidos (Associate Professor)	King Abdulaziz University, Saudi Arabia	2025	HajjShield: An AI-Driven Application to Enhance Hajj Health Card Initiatives	Drafted the proposal for the Hajj Research Grant, Ministry of Higher Education and SNIH.
Dr. Lama Tarsissi (Associate Professor) & Dr. Samuel F. Feng (Assistant Professor)	Department of Mathematics and Computer Science, Sorbonne University Abu Dhabi, UAE	2025 – 2026	SheHealth: AI-Driven Maternal Health Literacy and Postpartum Care in the Middle East	Implementation of AI models for maternal health monitoring focusing on postpartum care. Leading the project, coordinating with all PIs; development of the Android mobile application.
Dr. Nawaf Alhebaishi (Assistant Professor) & Dr. Rayan H. Mosli (Assistant Professor)	Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia	2022 & 2023	Three-phase service level agreements and trust management model for monitoring and managing the services by trusted cloud broker Research led by Dr. Muralidharan, SRM University, India	Assisting in implementation, drafting the article, co-ordinating with co-authors. Published in IET Communications (Link)
Dr. Mohammed Alghamdi (Professor) & Dr. Mohammed M. AlMaray Alqahtani (Assistant Professor)	Department of Mathematics, King Saud University & College of Computer Science, King Khalid University, Saudi Arabia	2022 & 2023	FogDedupe: A Fog-Centric Deduplication Approach Using Multi-Key Homomorphic Encryption Technique	Implementation of the fog-centric deduplication mechanism; developing multi-key homomorphic encryption techniques. Published in Journal of Sensors (Link)

5e. International Conference Roles (last 3 years)

- **Organizing Committee [International Liaison Chair] –** Sixth International Conference on Intelligent Systems and Machine Learning (ICISML 2026), organized by Computer Science and Engineering Department, NIT Trichy, India, July 2026 (listed at icisml.com/committee.html).
- **Session Chair –** 1st International Conference on Advances, Architectures, Algorithms & Applications for AI (IC4AI'26), School of Computer Science and Engineering, VIT-AP University, Amaravati, India, 17–18 July 2026.
- **Session Chair –** International Conference on Smart and Sustainable Practices for Business Transformation (ICSPBT'2026), Modern College of Business and Science, Muscat, Oman, February 2026 (virtual session via MS Teams).
- **Session Chair [Track: Distributed Computing] –** International Conference on Innovative Computing Research in Computer Science, Sri Venkateswara College of Engineering, Chennai, India and AIMST University, Malaysia, 26–27 May 2025.
- **Session Chair [Track: Machine Learning and Artificial Intelligence] –** Fifth International Conference on Intelligent Systems and Machine Learning, Computer Science and Engineering Department, NIT Meghalaya, India, 16–17 May 2025.
- **Session Chair [Track: Sustainable Practices in Computing] –** International Conference on Sustainable Practices in Business and Technology (ICSPBT'2024), Modern College of Business and Science, Muscat, Oman, 11–12 December 2024.
- **Session Chair [Track: Machine Learning] –** International Conference on Pervasive Knowledge and Collective Intelligence on Web and Social Media (PerSom'24), Department of Information Technology, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, India.
- **Session Chair [Track: Cyber Physical System] –** Third International Conference on Intelligent Systems and Machine Learning, Department of Computer Science and Engineering, Sri Sri University, Odisha, India, 16–17 July 2023.

5f. Journal Reviewing and Other Scholarly Activities

Reviewer: Scientific Reports; Soft Computing; Multimedia Tools and Applications; Cluster Computing; Signal, Image and Video Processing; EURASIP Journal on Information Security; The Journal of Supercomputing; Journal of Cloud Computing.

- **Ph.D. Viva-Voce –** Member of the Board of Examiners (Guide) for the Ph.D. oral examination of Mr. Ahmad Abubakar Mustapha, VIT-AP University (September 2025).

- **Guest Reviewer –** "Gahezoon – Spring 2026" Project Poster Presentation by final-year Computer Science students from HEIs across Oman, UTAS-Nizwa, held at Oman Across Ages Museum, Manah (21 May 2026).

5g. Awards and Recognition

- **MCBS Lecturer of the Year (Creative Faculty) 2025–2026**, Modern College of Business and Science, Muscat, Oman – for innovatively integrating AI approaches into teaching, supported by strong student feedback (10 May 2026).
- **Research Fellowship** – appointed Research Fellow, INTI International University, Malaysia, 26 August 2026 – 31 December 2028 (Ref. IIU/HR/JSP/SYA/25979/26).
- **Best Research Award** for the Academic Year 2022–23, VIT-AP University.
- Received **Intramural Research Fund (PG-IMR)** from Sri Venkateswara College of Engineering for the project "Low-cost GPS integrated with INS and Reduction of data processing using Hadoop Map-Reduce" to complete post-graduate research work (2015).
- **Junior and Senior Research Fellowships** – SERB–DST, Government of India (2017 – 2020).

6. UNIVERSITY AND COMMUNITY SERVICE

As a full-time faculty member at VIT-AP University, India, and Modern College of Business and Science, Muscat, I have actively contributed to curriculum development, academic committees, accreditation and student mentoring. I have delivered over 30 guest lectures in the past four years as part of my commitment to serving society in Computer Science and Innovation.

I have also been involved in patent filing and innovation activities and supported technology transfer as Technology Transfer Officer (TTO) to help commercialise research outcomes, and have helped 100+ inventors, startups, faculty, students and researchers register their patents at the Indian Patent Office as a Registered Patent Agent (India).

6a. Programmes Organized / Attended / Guest Lectures Given (Annexure II)

Category	Conferences	Startup Events	Workshops	FDP / SDP / STTP
Organized	2	1	2	3
Guest Lectures Given*	-	4	17	13
Attended	15	8	21	9

* The list of guest lectures given is provided in Annexure II.

6b. University / College Level Responsibilities and Services

- Curriculum Committee Member, Department of Mathematics and Computer Science, Modern College of Business and Science, Muscat, Oman (2024 – Current).
- Academic Advisor for undergraduate students (40+ advisees), Department of Mathematics and Computer Science, MCBS – including one-on-one advising of academic-probation students and semester advising camps (AY 2025–26).
- Coach – World Robot Olympiad (WRO) 2026 Oman National Qualifier, held at Cheltenham Muscat School, organised with ROBOW – The Robotics Learning Center (6 June 2026).
- Principal Investigator – TRC-funded institutional research project "DigiCert CMS" (OMR 12,520), Modern College of Business and Science (Dec 2025 – Nov 2027).
- Mentored a newly joined faculty member (AY 2025–26).
- Professional Society: ISC2 Candidate Member (Sep 2025 – Sep 2026).
- Research Committee Member, School of Computer Science and Engineering (SCOPE), VIT-AP University (2022 – 2024).
- In charge of the High-Performance Computing Lab, VIT-AP University, Andhra Pradesh (2023 – 2024).
- Supported Dr. Raju Shanmugam, Head of Institute, United World School of Computational Intelligence (USCI), Karnavati University, Gujarat, to establish an IoT laboratory for B.Tech. students (2022).
- Supported the Department of Artificial Intelligence and Machine Learning, Vardhaman College of Engineering, in establishing a new Hi-tech Drone Laboratory (2021).
- In charge of IEEE IoT Skill Connect 2021, Vardhaman College of Engineering, Hyderabad.
- Created a Cloud Setup with 8 nodes using Eucalyptus software in the DST Cloud Research Lab, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering, Sriperumbudur (AY 2017–18).

6c. Accreditation and Quality Assurance

- Compiled the ABET Readiness report for the Department of Mathematics and Computer Science, Modern College of Business and Science. [August 2025]
- Prepared ABET accreditation evidence for Criterion 4 (Continuous Improvement) and Criterion 6 (Faculty), including CLO–SO–PI mapping, faculty documentation and quality improvement reports for the Department of Mathematics and Computer Science, MCBS. [August 2025]
- Supported the Criteria Owner for OAAA (Oman Authority for Academic Accreditation) by preparing/compiling student grade appeals, non-academic grievances, misconduct and disciplinary cases. [September 2025]
- Assisted Computer Science faculty at MCBS in revising Course Learning Outcomes (CLOs) and syllabi to ensure alignment with OQF level requirements. [Dec 2024 – Feb 2025]

6d. Community Service as Registered Patent Agent (India)

While pursuing my Ph.D., I qualified the Patent Agent Examination 2019 conducted by the Indian Patent Office and became a Registered Patent Agent (IN/PA: 3896). Registered Patent Agents are techno-legal professionals authorised to file patent applications and represent applicants before the Indian Patent Office. After joining VIT-AP University in 2022, my expertise in patent drafting and filing enabled me to take on the role of Technology Transfer Officer (TTO).

(i) Technology Transfer Officer, VIT-AP University

- Assisted the Innovation Incubation Entrepreneurship Cell (IIEC), VIT-AP University, in drafting the first Intellectual Property policy of the university, laying the foundation for structured innovation and patent commercialisation.
- Assisted in drafting the licence agreement between an IIEC-registered startup and the university.
- Supported the Director of the IIEC Cell in signing a Memorandum of Understanding (MoU) with IP facilitation organisations such as the National Research Development Corporation (NRDC) to strengthen institutional IP and technology transfer activities.
- Led the V-Launch Pad 2024, a national-level startup competition held on 23 March 2024, which received over 250 entries from across India.
- With strong support from the management of VIT-AP University and the IIEC Cell, the IPR and TTO Offices processed 150+ patent applications in collaboration with external IP agencies during AY 2023–24.

(ii) Individual contribution as a Registered Patent Agent

- Actively raised intellectual property awareness by offering pro bono guidance to students, faculty, early-stage innovators and startups in India.
- Assisted 1000+ independent inventors and academic researchers (over various events – Annexure II) in understanding the patenting process, drafting patent specifications and filing applications with the Indian Patent Office.
- Assisted 100+ students, faculty, innovators and startups in India to register utility patents and designs (Annexure III).
- Serving as a NIPAM (National Intellectual Property Awareness Mission) Volunteer with the Indian Patent Office, contributing to nationwide efforts in spreading awareness about intellectual property rights.

7. FOCUS AREAS FOR THE NEXT 5 YEARS (2025 – 2030)

- Establishing a fully functioning research laboratory on Cyber-Physical Systems (CPS) and Advanced Cyber Computing.
- Securing research funding from national (e.g., TRC Oman) and international agencies (e.g., UKRI, Horizon Europe).
- Guiding Ph.D. research scholars and PG students on Cyber-Physical Systems and AI-based cyber security applications.
- Attaining WIPO certification on PCT / international patent filing to enhance IP capabilities.
- Involvement in and learning the ABET accreditation process.
- Learning Arabic.

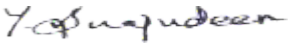
Ten-Year Targets (2025 – 2035)

- Completing at least 12 research scholars by the end of Academic Year 2035.
- Receiving at least OMR 50,000 as research funding.
- Building wider international research connections and collaborations throughout the world.
- Publishing 25+ Q1 research journals as first author and 50+ research articles as co-author/mentor.

8. REFERENCES

Dr. R. Anitha, Ph.D. Professor and Head, Department of Computer Science and Engineering Sri Venkateswara College of Engineering, Chennai, Tamil Nadu, India Email: ranitha@svce.ac.in Mobile: +91-9952337212	**Dr. Afaq Ahmad, Ph.D.** Professor, Department of Mathematics and Computer Science Modern College of Business and Science, Muscat, Oman Email: afaq.ahmed@mcbs.edu.om Mobile: +968-99431341
Dr. Raju Shanmugam, Ph.D. Head of the Institute, School of Computational Intelligence Karnavati University, Gandhinagar, Gujarat, India Email: srajuhere@gmail.com Mobile: +91-8838340815	**Dr. Shitharth Selvarajan, Ph.D.** Associate Professor, Cyber Security and Digital Forensics, School of Built Environment, Engineering and Computing Leeds Beckett University, United Kingdom Email: s.selvarajan@leedsbeckett.ac.uk

Declaration: I solemnly declare that all the information furnished in this document is free of errors to the best of my knowledge.



Place: Muscat
Date: 29 September 2026

Signature
Dr. Mohamed Sirajudeen Yoosuf

ANNEXURE I – LIST OF PUBLICATIONS

◆ indicates a cyber security / information security related publication.

International Journals

1. Ahmad Abubakar Mustapha, **Mohamed Sirajudeen Yoosuf**, Shitharth Selvarajan, Alaa O. Khadidos, and Adil O. Khadidos. "Enhancing Entertainment Through Reinforcement Learning: Applications in Gaming." International Journal of Computer Games Technology 2026, no. 1 (2026): 3031640. DOI: 10.1155/ijcg/3031640
2. ◆ Divya J. Dsouza, Anisha P. Rodrigues, Roshan Fernandes, Vijaya Padmanabha, and **Mohamed S. Yoosuf**. "HyDNN: A Hybrid Deep Learning Approach for Phishing URL Detection." Emerging Science Journal 10, no. 3 (2026): 1790–1823. DOI: 10.28991/ESJ-2026-010-03-033
3. P. Vijaya, Basant Kumar, Joseph Mani, Satish Chander, Roshan Fernandes, and **Mohamed Sirajudeen Yoosuf**. "Fractional White Smell Agent Optimization for CNN-Based Transfer Learning in Melanoma Classification." Emerging Science Journal 10, no. 3 (2026): 1215–1238. DOI: 10.28991/ESJ-2026-010-03-02
4. ◆ Sai Suchith Kurra, Likhitha Rayana, **Mohamed Sirajudeen Yoosuf**, Olfat M. Mirza, Alaa O. Khadidos, and Adil O. Khadidos. "DL-IDS: A Dual-Layer Intrusion Detection System with Ensembled Machine Learning Models for Industry 4.0." International Journal on Artificial Intelligence Tools (2026): 2640010. DOI: 10.1142/S0218213026400105
5. ◆ Ahmed Al-Busaidi, Joseph Mani, **Mohamed Sirajudeen Yoosuf**, and P. Vijaya. "A Hybrid Blockchain Migration Framework for Converting Traditional Databases into Blockchain-Based EMR Systems." Scientific Reports 16 (2026): 7348. DOI: 10.1038/s41598-026-36787-6
6. ◆ **Mohamed Sirajudeen Yoosuf**, P. Vijaya, and Joseph Mani. "DML-IDS: Distributed Multi-Layer Intrusion Detection System for Securing Healthcare Infrastructure." Emerging Science Journal 9, no. 6 (2025): 3157–3173. DOI: 10.28991/ESJ-2025-09-06-016
7. ◆ SivaPrasad, Dulam Devee, and **Mohamed Sirajudeen Yoosuf**. "Privacy-Centric Signature Classification for Secure Educational Certificate Authentication." Security and Privacy 8, no. 2 (2025): e70013. Link
8. ◆ Mustapha, Ahmad Abubakar, and **Mohamed Sirajudeen Yoosuf**. "Crowd Monitoring and Controlling System for Homeland Security Improvement." Proceedings on Engineering 7, no. 1 (2025): 485–494. Link
9. ◆ Suchith Kurra, Likhitha Rayana, and **Mohamed Sirajudeen Yoosuf**. "LIDS Security Shield: Lightweight Intrusion Detection System (IDS) for Detecting DDoS Attacks on IoT Environment." International Journal of Grid and Utility Computing (2024) – accepted. Link
10. Sujatha, R., K. Mahalakshmi, and **Mohamed Sirajudeen Yoosuf**. "Colorectal cancer prediction via histopathology segmentation using DC-GAN and VAE-GAN." EAI Endorsed Transactions on Pervasive Health and Technology 10 (2024). Link
11. Mangla, Monika, Nonita Sharma, and **Mohamed Sirajudeen Yoosuf**. "A Hybrid Fuzzy Factor Analysis Model for Evaluation of Fiscal Proficiency." EAI Endorsed Transactions on Scalable Information Systems 11.3 (2024). Link
12. Mustapha, Ahmad Abubakar, and **Mohamed Sirajudeen Yoosuf**. "Exploring the efficacy and comparative analysis of one-stage object detectors for computer vision: a review." Multimedia Tools and Applications (2023): 1–26. Link
13. **Mohamed Sirajudeen Yoosuf**, and R. Anitha. "Low latency fog-centric deduplication approach to reduce IoT healthcare data redundancy." Wireless Personal Communications 126.1 (2022): 421–443. Link
14. ◆ Muralidharan, **Mohamed Sirajudeen Yoosuf**, Shitharth, Alhebaishi, Mosli, R. H., and Alhelou, H. H. "Three-phase service level agreements and trust management model for monitoring and managing the services by trusted cloud broker." IET Communications 16 (2022): 2309–2320. Link
15. Aluvalu, R., L. Muddana, V. Uma Maheswari, K. K. Channam, S. Mudrakola, **Mohamed Sirajudeen Yoosuf**, and C. V. R. Syavasya. "Fog Computing: Applications, Challenges, and Opportunities." Journal of Autonomous Intelligence 5, no. 2 (2022): 24–43. Link
16. ◆ **Mohamed Sirajudeen Yoosuf**, C. Muralidharan, S. Shitharth, Mohammed Alghamdi, Mohammed Maray, and Osama Bassam J. Rabie. "FogDedupe: A Fog-Centric Deduplication Approach Using Multi-Key Homomorphic Encryption Technique." Journal of Sensors 2022, no. 1 (2022): 6759875. Link
17. ◆ **Mohamed Sirajudeen Yoosuf** and R. Anitha. "Lightweight fog-centric auditing scheme to verify integrity of IoT healthcare data in the cloud environment." Concurrency and Computation: Practice and Experience 33, no. 24 (2021): e6450. Link
18. ◆ **Mohamed Sirajudeen Yoosuf** and R. Anitha. "LDuAP: lightweight dual auditing protocol to verify data integrity in cloud storage servers." Journal of Ambient Intelligence and Humanized Computing 13, no. 8 (2022): 3787–3805. Link
19. ◆ **Mohamed Sirajudeen Yoosuf** and R. Anitha. "Forgery document detection in information management system using cognitive techniques." Journal of Intelligent & Fuzzy Systems 39, no. 6 (2020): 8057–8068. Link

International Conferences

1. ◆ Al Khazama Al Araimi, Joseph Mani, **Mohamed Sirajudeen Yoosuf**, Ajay Vikram Singh, and P. Vijaya, "Assessing OT Cybersecurity Readiness in Critical Infrastructure: Global Frameworks and GCC Applications," 5th International Conference on Innovative Practices in Technology and Management (ICIPTM 2026), Noida, India, 19–20 February 2026. DOI: 10.1109/ICIPTM69057.2026.11466034
2. ◆ Salah Al Malki, Khalid Al Hashmi, Mohammed Al Araimi, Ajay Vikram Singh, **Mohamed Sirajudeen Yoosuf**, Joseph Mani, and P. Vijaya, "Identification of Important Features in Detection of Insider Abnormal Activities Dataset," ICIPTM 2026, Noida, India, 19–20 February 2026. DOI: 10.1109/ICIPTM69057.2026.11465501
3. Aryan Al Zadjali, Abrar Al Balushi, Ajay Vikram Singh, **Mohamed Sirajudeen Yoosuf**, Joseph Mani, and P. Vijaya, "Face Detection and Emotion Recognition Using Convolutional Neural Network," ICIPTM 2026, Noida, India, 19–20 February 2026. DOI: 10.1109/ICIPTM69057.2026.11465898
4. Vijaya Padmanabha, **Mohamed Sirajudeen Yoosuf**, Joseph Mani, Roshan Fernandes, Anisha P. Rodrigues, and K. Manjunath Kamath, "Melanoma Classification using Adaptive Nutcracker Optimization-based Dense Residual Dual-Shuffle Attention Network using Skin Images," International Conference on Artificial Intelligence and Data Engineering (AIDE 2026), Nitte, India, 5–7 February 2026, pp. 257–262. DOI: 10.1109/AIDE69088.2026.11545167
5. ◆ Rawnaq Al Aufi, **Mohamed Sirajudeen Yoosuf**, P. Vijaya, Joseph Mani, and Ajay Vikram Singh, "SMS Spam Detection using Naïve Bayes and Logistic Regression," 12th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO 2025), Noida, India, 18–19 September 2025. DOI: 10.1109/ICRITO66076.2025.11241309
6. Raiyan Al Wahaibi, **Mohamed Sirajudeen Yoosuf**, P. Vijaya, Joseph Mani, and Ajay Vikram Singh, "House Price Prediction Using Machine Learning," ICRITO 2025, Noida, India, 18–19 September 2025. DOI: 10.1109/ICRITO66076.2025.11241916
7. Harshit Toprani, Joseph Mani, **Mohamed Sirajudeen Yoosuf**, P. Vijaya, and Ajay Vikram Singh, "A Voice-Driven AI and IoT Device for Next-Generation Tourist Assistance," ICRITO 2025, Noida, India, 18–19 September 2025. DOI: 10.1109/ICRITO66076.2025.11241875
8. Salma Altamtami, P. Vijaya, **Mohamed Sirajudeen Yoosuf**, Josephmani Puthenparampily, and Ajay Vikram Singh, "IoT-Based Health Monitoring and Emergency Response System for Elderly Care," ICRITO 2025, Noida, India, 18–19 September 2025. DOI: 10.1109/ICRITO66076.2025.11241690
9. Hothefa Shaker, Joseph Mani, P. Vijaya, **Mohamed Sirajudeen Yoosuf**, Nitin Pandey, and Shambhu Kumar Jha, "A Study of Risk Management Process and its Impact on Project Success in the Oil and Gas Sector," ICRITO 2025, Noida, India, 18–19 September 2025. DOI: 10.1109/ICRITO66076.2025.11241234
10. ◆ Bhavesh Pahilajani, Yasser Al Alawi, Manaf Al Lamki, **Mohamed Sirajudeen Yoosuf**, P. Vijaya, Joseph Mani, and Ajay Vikram Singh, "Lightweight Intrusion Detection System on IoT Devices Using Machine Learning Techniques," ICRITO 2025, Noida, India, 18–19 September 2025. DOI: 10.1109/ICRITO66076.2025.11241861
11. Rakesh Balla, **Mohamed Sirajudeen Yoosuf**, "DraT-NLP: Identification of original Dravidian Language from transliterated text using Natural Language Processing," International Conference on Sustainable Development in Engineering and Technology (ICSDET 2025), University of Technology and Applied Sciences – Al Mussanah, Sultanate of Oman, 30 April – 1 May 2025.
12. Vijaya P, **Mohamed Sirajudeen Yoosuf**, Basant Kumar, Joseph Mani, Hothefa Shaker, and Afaq Ahmad, "Eel and Grouper Weighted Moving Average enabled SpinalZFNet for Startup success prediction," International Conference on Smart and Sustainable Practices for Business Transformation (ICSPBT 2024), Modern College of Business and Science, Muscat.
13. **Mohamed Sirajudeen Yoosuf** and Ahmad Mustapha Abubakar, "Sustainable Recycling in Waste Management 4.0: A Comparative Study of Machine Learning and Deep Learning Models," ICSPBT 2024, Modern College of Business and Science, Muscat [published in Studies in Systems, Decision and Control, vol. 590, Springer, pp. 179–189, Oct 2025]. DOI: 10.1007/978-3-031-88874-8_15
14. ◆ Joseph Mani, **Mohamed Sirajudeen Yoosuf**, Vijaya P, and Hothefa Shaker, "Establishing a Sustainable Ecosystem for Cryptocurrency: Detecting Fraud Transactions using Machine Learning Techniques," ICSPBT 2024, Modern College of Business and Science, Muscat.
15. ◆ Suchith Kurra, Likhitha Rayana and **Mohamed Sirajudeen Yoosuf**, "Analyzing Artificial Intelligence based Intrusion Detection System in Detecting DDoS Attack," 4th International Conference on Smart Systems: Innovation in Computing, Manipal University Jaipur, 26–27 October 2023. Link
16. ◆ Rinish Reddy, Sadhwika Rachamalla, and **Mohamed Sirajudeen Yoosuf**, "Convolutional Neural Network Based Intrusion Detection System and Predicting the DDoS Attack," Springer (Scopus indexed conference proceedings), 2022. Link

17. Dheeraj, Marumoju, Manan Pathak, G. R. Anil, and **Mohamed Sirajudeen Yoosuf**. "Television Price Prediction Based on Features with Machine Learning." In International Conference on Intelligent Systems and Machine Learning, pp. 507–517. Cham: Springer Nature Switzerland, 2022. Link

18. ◆ Somasundaram R, Muralidharan C, **Mohamed Sirajudeen Yoosuf**, "Integrating Blockchain with Internet of Medical Things (B-IoMT)," International Conference on Artificial Intelligence & Smart Computing (ICAISC-2020), Bannari Amman Institute of Technology, Erode, Tamil Nadu.

19. ◆ **Mohamed Sirajudeen Yoosuf**, C. Muralidharan, and R. Anitha. "Efficient Deduplication on Cloud Environment Using Bloom Filter and IND-CCA2 Secured Cramer Shoup Cryptosystem." In Intelligent Data Communication Technologies and Internet of Things: ICICI 2019, pp. 714–723. Springer International Publishing, 2020.

20. ◆ **Mohamed Sirajudeen Yoosuf** and R. Anitha. "Survey on homomorphic encryption." In International Conference for Phoenixes on Emerging Current Trends in Engineering and Management (PECTEAM 2018), pp. 70–74. Atlantis Press, 2018.

21. ◆ Raju, S., and **Mohamed Sirajudeen Yoosuf**. "Data security in cloud computing using Cramer-Shoup cryptosystem." In 2014 International Conference on Contemporary Computing and Informatics (IC3I), pp. 343–346. IEEE, 2014.

Book Chapters

1. Padmavathy T., Mehfooza M., **Mohamed Yoosuf**, P. Geetha, and Shitharth Selvarajan. "Transformation of Urban Infrastructure Using Federated Learning in Artificial Intelligence-Driven Sensor Cloud Architectures." In Adaptive AI in Sensor Informatics: Methods, Applications, and Implications, pp. 277–289. Elsevier, 2026. DOI: 10.1016/B978-0-443-36412-9.00011-X

2. Afaq Ahmad, Syed Samir Al Busaidi, **Mohamed Sirajudeen Yoosuf**, and Basant Kumar. "Reliability and Risk Prevention in Image Processing." In Advances in Image Processing, Reliability, and Artificial Intelligence, pp. 121–133. Elsevier, December 2025. DOI: 10.1016/B978-0-443-34266-0.00003-6

3. Afaq Ahmad, Mohammad Sultan Ahmad Ansari, Muhammad Naeem, Bashir Ahmad Fida, and **Mohamed Sirajudeen Yoosuf**. "Challenges Towards Sustainable Future of Electric Vehicle." In Studies in Systems, Decision and Control, vol. 590, pp. 169–178. Springer, October 2025. DOI: 10.1007/978-3-031-88874-8_14

4. Devee Siva Prasad Dulam, **Mohamed Sirajudeen Yoosuf**, Setti Vidya Sagar Appaji, K Spandana, and T Suvarna Kumari, "Smart Solutions for a Sustainable Future," AI in Agriculture for Sustainable and Economic Management, CRC Press, 25 pages, 1 August 2024.

5. ◆ Shitharth, Mohammed Gouse, **Mohamed Sirajudeen Yoosuf**, D. Shivaprasad, Mustapha Hedabou, and Yogesh C.K. (2024). "Internet of Things and Cybersecurity Mechanism for Industrial Automation Systems." DOI: 10.1201/9781003516668-14

6. Muralidharan, C., **Mohamed Sirajudeen Yoosuf**, and R. Somasundaram. "Decision Support and Knowledge Representation in Healthcare." In Internet of Medical Things in Smart Healthcare, pp. 119–136. Apple Academic Press, 2023.

7. ◆ D D Shivaprasad, **Mohamed Sirajudeen Yoosuf**, P. Selvaramalakshmi, Manoj A. Patil, and Dasari Promod Kumar. "Problems and Demanding Situations in Traditional Cryptography: An Insistence for Quantum Computing to Secure Private Information." Evolution and Applications of Quantum Computing (2023): 183–206.

8. Muralidharan, C., **Mohamed Sirajudeen Yoosuf**, Y. Rajkumar, and D. D. Shivaprasad. "Internet of Agro Drones for Precision Agriculture." In Internet of Drones, pp. 139–153. CRC Press, 2023.

9. ◆ Krishnan, Nallarasu, **Mohamed Sirajudeen Yoosuf**, and K. Murugan. "Establishment of FANETs using IoT-based UAV and its issues related to mobility and authentication." In Modelling and Simulation of Fast-Moving Ad-Hoc Networks (FANETs and VANETs), pp. 74–93. IGI Global, 2023.

10. Padmavathy, T., C. Muralidharan, and **Mohamed Sirajudeen Yoosuf**. "Cloud-based industrial IoT infrastructure to facilitate efficient data analytics." Cloud Analytics for Industry 4.0 6 (2022): 31.

11. ◆ Muralidharan, C., **Mohamed Sirajudeen Yoosuf**, and Y. Rajkumar. "Empowerment of Internet of Things Through the Integration of Blockchain Technology." In Blockchain and Deep Learning: Future Trends and Enabling Technologies, pp. 147–157. Cham: Springer International Publishing, 2022.

12. ◆ Vinothiyalakshmi, P., C. Muralidharan, **Mohamed Sirajudeen Yoosuf**, and R. Anitha. "Digitized Land Registration Using Blockchain Technology." In Blockchain Technology, pp. 73–86. CRC Press, 2022.

13. Muralidharan, **Mohamed Sirajudeen Yoosuf**, and R. Anitha. "Patient Report Analysis for Identification and Diagnosis of Disease." In Machine Learning for Healthcare, pp. 129–158. Chapman and Hall/CRC, 2020.

14. Muralidharan, C., **Mohamed Sirajudeen Yoosuf**, and R. Anitha. "Synergy of Internet of Things with Cloud, Artificial Intelligence and Blockchain for Empowering Autonomous Vehicles." Deep Learning and Big Data for Intelligent Transportation: Enabling Technologies and Future Trends (2021): 225–244.

Patents and Designs

1. R. Anitha, C. Muralidharan, P. Vinothiyalakshmi, **Mohamed Sirajudeen Yoosuf**, T. Padmavathy, "Search and Place Filter (SPF) – A Probabilistic Data Structure for Virtualization", Intellectual Property, India. Granted: Patent Number 475501
2. G.S.S Harshith, K Rishi Reddy, Dasari Shiva, Dasari Srikanth, Raghunath, **Mohamed Sirajudeen Yoosuf**, "Snake Detection and Catching Device", Design – Intellectual Property, India. Design No. 385813-001
3. Sai Saketh, Arun Mandava, Gamidi Sanjay, **Mohamed Sirajudeen Yoosuf**, "PET AI Robot", Design – Intellectual Property, India. Design No. 397319-001
4. Venkata Thanush, **Mohamed Sirajudeen Yoosuf**, "PreSlate: Education Tool Kit", Design – Intellectual Property, India. Design Application No. 415919-001 (filed, awaiting grant).

ANNEXURE II – GUEST LECTURES / INVITED TALKS GIVEN

S. No.	Title / Event / Organizer	Date
1	Patenting Your Invention: A Pathway to Entrepreneurship, organized by the Institution's Innovation Council (IIC Cell), Symbiosis International University, Hyderabad	27 Mar 2025
2	Two Day Workshop on “Blockchain Technology and Data Analytics”, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering	30–31 Oct 2023
3	Two Days Hands-on Session on “IoT and Drone Technology”, Department of Electrical and Electronics Engineering, Anil Neerukonda Institute of Technology and Science, Visakhapatnam, Andhra Pradesh	20 Sept 2023
4	Two Days Workshop on “IoT and Drone Technology”, EEE event, Chalapathi Institute of Engineering & Technology, Lam, Guntur, Andhra Pradesh, India	16–17 July 2023
5	Guest Lecture on “Importance of Intellectual Property”, Department of Information Technology, Kings Engineering College, Chennai	31 Mar 2023
6	Two-days Workshop on “Developing IoT applications”, Department of Electronics and Communication Engineering, Narasaraopeta Engineering College, Narasaraopet, Guntur, Andhra Pradesh	26–27 Sept 2022
7	Two-Week Short-Term Training Programme on “Robotics and Drones”, Department of Electrical and Electronics Engineering, in association with IEEE CBIT-RAS society, Chaitanya Bharathi Institute of Technology, Hyderabad	5–17 Sept 2022
8	Two days workshop on “Internet of Things”, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering, Tirupati, Andhra Pradesh	15 June 2022
9	One day workshop on “Indian Patent Rights”, Department of Aeronautical Engineering, Bharath Institute of Higher Education and Research, Chennai	07 June 2022
10	Webinar on “The Art of Drone Technologies” in association with IEEE Delhi Section with Computer Society Chapter, Consultants Network Affinity Group, ISTE Delhi Section, IETE Delhi Centre; Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi	12 Mar 2022
11	Guest Lecture on “IP – The Cutting Edge for Innovation and Protection”, organized by Electronics and Communication Engineering and Industrial IoT Lab	10 Mar 2022
12	Session on “Patents – Registration and Publication” in Five days FDP on “Insight into Emerging Research Areas (IERA) – Concepts, Challenges and Opportunities”, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering (Autonomous), Chennai	02–07 Mar 2022
13	Webinar on “IP – The Cutting Edge for Innovation and Protection”, Institute of Innovation Council, Bannari Amman Institute of Technology, Erode, Tamil Nadu	25 Jan 2021
14	Webinar on “Intellectual Property Rights”, Innovation Incubation Center (IIC), Anna University, Tirunelveli, Tamil Nadu	09 Nov 2021
15	Special Talk on “IoT and Robotics”, IEEE Robotic Automation Society (IEEE-RAS) Symposium 2021, Vardhaman College of Engineering (Autonomous), Hyderabad	06 Nov 2021
16	Webinar on “Patenting your Invention”, Department of Artificial Intelligence and Machine Learning, Annamacharya Institute of Technology and Science (Autonomous), Rajampet, Andhra Pradesh	03 Nov 2021
17	Webinar on “Patenting your Invention”, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering (Autonomous), Chennai	04 Oct 2021
18	MIC Sponsored Lecture Series on “IP – The Cutting Edge for Innovation and Protection” in association with MoE's Innovation Cell – Govt. of India, Institution's Innovation Council, Christ College of Engineering and Technology, Pondicherry	01 Oct 2021
19	Webinar on “Hey – That was my Idea!” Copyright protection and patent for Creative Idea or Innovation, Centre for Innovation and Entrepreneurship (CIE) Hub, Vardhaman College of Engineering (Autonomous), Hyderabad	26 Sep 2021
20	Webinar on “Patenting your Invention”, United World School of Computational Intelligence, Karnavati University (Deemed), Ahmedabad, Gujarat	25 Sep 2021
21	Three Day FDP on “Introduction to IoT and Raspberry Pi programming” in association with IEEE VCE Student Branch & ACM Student Chapter, Department of Computer Science and Engineering, Vardhaman College of Engineering (Autonomous), Hyderabad, Telangana	16–18 Sep 2021

S. No.	Title / Event / Organizer	Date
22	Special Talk on “Patenting your Invention” in association with IIC, Ministry of Education Initiative & IEEE Computer Society, Department of Computer Science and Engineering, Vardhaman College of Engineering (Autonomous), Hyderabad, Telangana	15 Sep 2021
23	AICTE Sponsored Six Days STTP on “Exploring Real World Application of Block Chain Technology with Machine Learning Models”, Department of Information Technology, K.L.N College of Engineering, Madurai, Tamil Nadu	25 Feb 2021
24	Webinar on “Introduction to Blockchain Technology”, Department of Information Technology, Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu	8 Jan 2021
25	Workshop on “Internet of Things and Machine Learning”, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering, Chennai, Tamil Nadu	9–12 Mar 2020
26	Workshop – “A National Workshop on Industry 4.0”, Internal Quality Assurance Cell & Department of Mechanical Engineering, Sri Venkateswara College of Engineering, Chennai, Tamil Nadu	29–31 Aug 2019
27	Workshop on “Automotive Embedded Systems with Internet of Things & Cloud Computing”, Department of Automobile Engineering, Sri Venkateswara College of Engineering, Chennai, Tamil Nadu	17–28 June 2019
28	Workshop on “Internet of Things for Automobile Engineers”, Department of Computer Science and Engineering in association with Automobile Engineering, Sri Venkateswara College of Engineering, Chennai, Tamil Nadu	25–27 Feb 2019
29	Workshop on “Internet of Things & Cloud Computing”, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering, Chennai, Tamil Nadu	07–08 Feb 2019
30	Guest lecture on “Cloud Architecture Model” in National Level workshop on Cloud Architecture, Department of Computer Science & Engineering, SRM University, Kattankulathur, Chennai, Tamil Nadu	6 Nov 2018
31	Workshop on “Deploying Cloud Infrastructure using Eucalyptus”, Department of Computer Science and Engineering, Sri Venkateswara College of Engineering, Chennai, Tamil Nadu	03 Oct 2018
32	Workshop on “Theory of Big Data and Cloud Computing”, Department of Computer Science and Engineering, Sadakathullah Appa Arts College, Tirunelveli, Tamil Nadu	27 Sep 2016
33	Workshop on “Cloud and Big Data”, Department of Computer Science and Engineering, Rajiv Gandhi College of Engineering, Sriperumbudur, Tamil Nadu	31 Aug 2016

ANNEXURE III – PATENTS FILED / GRANTED AS REGISTERED PATENT AGENT (INDIAN PATENT OFFICE)

S. No.	Applicant Name(s)	Title of the Patent / Design	Application No. & Date	Status
1	Dr. Padmavathy T, Ms. Kaviya P, Ms. Ajoe Sweetlin Jeena, Ms. R. Poorni, Dr. Muthunagai S U	Personalized TV Channel Recommendation Device	Application No. 461402-001 Date: 06/06/2025	Registered (Certificate issued 18/09/2025) Patent Design No. 461402-001
2	Dr. Saravanan, Ms. Lakshmi Prabha G, Dr. Dejey	A System and Method for Cattle Livestock Management using Blockchain NFT	Application No. 202341069411 Date: 16/10/2023	FER issued on 29/04/2025 – Reply submitted on 19/08/2025, awaiting further examination
3	Manoj A. Patil, Dr. Manohar M, Dr. C. Laxuman, Dr. Khyamling Parane, Dr. Gururaj Sunkad, Dr. B. M. Dodamani	A System and Method for Tomato and Potato Plant Leaf Disease Detection	Application No. 202341065174 Date: 28/09/2023	FER issued on 21/03/2025 – Response submitted on 07/09/2025, awaiting Controller's further examination
4	Dr. K. Sree Latha	All-in-One Medical Device for Monitoring Heart Failures	Design No. 390461-001 Date: 17/07/2023	Registered – Published in Patent Office Journal No. 46/2023 on 17/11/2023
5	Dr. B. Bhaskar Reddy	Fingerprint Device Integrated with Camera and Sanitizer Dispensing Unit	Design No. 391105-001 Date: 17/07/2023	Registered – Published in Patent Office Journal No. 57/2023 on 12/12/2023
6	Infinity Arsenal Private Limited, Chennai, India	Ground Control Station – VISISHTA	Design No. 400256-001 Date: 20/11/2023	Registered (Certificate issued 06/06/2024) Patent Design No. 400256-001
7	Karnavati University, Gujarat, India et al.	Artificial Intelligence-Based Digital Pet	Design No. 409493-001 Date: 07/03/2024	Registered (Certificate issued 05/06/2024) Patent Design No. 409493-001
8	Dr. Sangeetha Rajesh, Dr. N J Nalini	Multi Modal Alzheimer's Disease Severity Detection and Music Therapy Recommendation System	Design No. 416202-001 Date: 05/05/2024	Registered (Certificate issued 20/06/2024) Patent Design No. 416202-001
9	Manjunath Ramanna Lamani, Asha V, Padmaja K, Shilpa B L, Maria Rufina P, Harshitha B	Autism Detecting Device	Design No. 425781-001 Date: 04/08/2024	Registered (Certificate issued 21/02/2025) Patent Design No. 425781-001
10	Dr. S. Gopikrishnan	Arduino-based Bluetooth-controlled Bulb Holder	Design No. 439806-001 Date: 07/12/2024	FER received 03/04/2025 Responded to FER on 19/04/2025
11	Mr. TulasiRaju Nethala, Dr. Bidush Kumar Sahoo, Dr. Pamidi Srinivasulu, Mr. M. Satyanarayana	A Method for Enhanced Cancer Classification Using Gene Expression Data with Integrated Hybrid Deep Learning Model	Application No. 202431055447 Filed on 20.07.2024 Assisted in drafting & filing	Filed and awaiting publication
12	Vignan Institute of Technology and Science, Hyderabad (Autonomous) et al.	A Method for Lung Cancer Prediction Using Hybrid Patch Processing and Deep Learning Model	Application No. 202441054834 Filed on 18.07.2024 Assisted in drafting & filing	Published on 02/08/2024

S. No.	Applicant Name(s)	Title of the Patent / Design	Application No. & Date	Status
13	Mr. Thanay Krishnareddypeta, Mr. Shoaib Hafeez, Dr. Nikhila Kathirisetty	Smart Traffic Helmet using IoT and Image Processing	Application No. 202141043256	Assisted in Form 13 & Form 18A
14	Mr. Shesetty Mohan, Dr. Matha Govinda Raju, Mrs. Shesetty Neeraja, Mr. Viswanathasarma Ch	A Method for Recreating loved ones through AI Powered Humanoid Robots	Application No. 202441049910 Filed on 29.06.2024 Assisted in drafting & filing	Published on 05/07/2024
15	Mr. Vikas Ranjan et al.	System and Method for Four-Wheel Non-Interaction Navigation	Application No. 202441048562 Filed on 25.06.2024	Published on 05/07/2024
16	Dr. Saroja Kumar Rout et al.	Novel Deep Learning based Intelligent Robust Early Sepsis Prediction Model	Application No. 202241041912 Filed on 21.07.2022	Granted on 09/07/2024 – Patent Number 544517
17	Dr. Priya RL et al.	Audio Emotion Recognition using Digital and Deep Learning Techniques	Application No. 202321003900 Filed on 27.01.2023	Response to FER submitted on 29/04/2024
18	Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad et al.	A Method for Adaptive Cyber Framework for Flooding Attack Mitigation thereof	Application No. 202441031515 Filed on 20.04.2024	Published on 26/04/2024
19	Dr. Roselin J, Ms. Israelin Insulata J	A Method for Adaptive Cyber Security Framework for Flooding Attack Mitigation	Application No. 202441027233 Filed on 20.04.2024	Published on 12/04/2024
20	Dr. D Khasim Vali, Dr. S Sudhakar Ilango, Dr. Hussain Syed, Mr. M Mohamed Iqbal, Dr. Prabha Selvaraj	Artificial Intelligence-Driven Smart TV Recommendation System Using Computer Vision	Application No. 202241047426 Filed on 20.08.2022	Granted on 09/07/2024 – Patent Number 540989
21	Karnavati University, Gujarat, et al.	IoT-Enabled Automated Patrolling System and Method for Detecting Drunk Driving and assuring hassle-free environment	Application No. 202421015510 Filed on 17/05/2024	Published on 07/06/2024
22	Dr. Rupam Kumar Sharma, Dr. Jabbar	Automated Selective Tea Leaf Bud Harvesting Machine	Application No. 202131050477 Filed on 25/01/2024	Response to FER submitted on 25/01/2024
23	Dr. Gresha S Bhatia et al.	A System and a Method for Remote Access Control to Sensitive Areas using Crypto Card	Application No. 202421017990 Filed on 13/03/2024	Published on 05/04/2024