

Lohith J. J. Ph.D. N.I.T. Tiruchirappalli

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🌐 <https://bmsce.ac.in/home/facultyProfile/53/Lohith--J-J>

🌐 <https://scholar.google.com/citations?hl=en&user=-7UELJYAAAAJ>

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{Professional Summary:

I am a highly accomplished and dedicated Computer Science and Engineering professional with over 17 years of experience in academia and research. I am currently seeking a high-level position within the field of academia. I am widely recognized for my expertise in various domains, including Blockchain Technology, Machine Learning, Computer Networks, Network Security and more. My extensive experience is complemented by a proven track record of publishing research papers and active participation in academic and professional activities. I am eager to secure a prestigious position where I can leverage my knowledge and experience to make a significant impact in the academic realm.

Professional Highlights and Achievements:

1. Director for I2N Technologies, a budding startup.
2. Evaluator for Toycathon 2021, conducted by Ministry of Education, AICTE.
3. Reviewer for CONCURRENCY AND COMPUTATION: PRACTICE AND EXPERIENCE journal.
4. Authored a Textbook on Data Communications & Networking for B.C.A, IV Sem at Bangalore University.
5. Delivered talks as a Resource person on "Blockchain and Smart Contracts" in over 25 AICTE sponsored Workshops and Faculty Development programs.
6. Serving as Guest Faculty at BITS WILP Programme since 2011.
7. Served as Guest Faculty at Manipal Global Education Services (MAGE).
8. Mentored UG Students project for IUCEE in the project Blockchain mapping of products and Recognised as Grade A conducted by IUCEE Foundation. Paper is accepted and published in IUCEE Foundation as proceedings.
9. Mentored Samsung Prism Worklet titled " Web Based GSM & EPC Simulator GUI" and students successfully completed with excellent grade. Worked as a trainer for WIPRO Project Campus Program in 2011.
10. Faculty for Campus Connect program under Infosys Technologies Limited, teaching subjects like Data Structures, Client-Server Computing, Unix Programming, and Database Management Systems.
11. Life member of Computer Society of India (CSI), Indian Society for Technical Education (ISTE) and Cryptology Research Society of India (CRSI) organizations.
12. Worked as Valuator for VTU Theory & Practical Examinations from June 2007.
13. Worked as Exam Coordinator for conducting VTU Theory Examinations in the year 2007-08.
14. Working as hostel Warden in B.M.S. hostel since February 2022.
15. I am appointed as Vice chairman for B.M.S. employees Credit Co-operative Society from 01/11/2023.

Employment History (17+ Years)

May 6th, 2024- till date	📌 Professor & Head, Dept of AI & ML, Nagarjuna college of Engineering and Technology.
May 30th, 2011 - May 4th, 2024	📌 Assistant Professor , Dept of CSE, B.M.S.College of Engineering, .
August 3rd, 2009 - May 28th, 2011	📌 Senior Lecturer. Department of CSE, Auden Technology and Management Academy.
August 1st, 2007 - July 31st, 2009	📌 Lecturer. Department of Information Science and Engineering, A.P.S. College of Engineering.
August 5th, 2005 - July 23rd, 2006	📌 Lecturer. Department of Information Science and Engineering, Yellamma Dasappa Institute of Technology.

Education

2017 – 2024	📌 Ph.D., National Institute of Technology, Tiruchirappalli. Thesis title: <i>Blockchain-Based Smart Contract Security: Frameworks for Vulnerability Detection and Credit Reporting.</i>
2006 – 2009	📌 M.Tech. Computer Network and Engineering, D.S.C.E. , V.T.U. with 77%
2001 – 2005	📌 B.E. Computer Science and Engineering, B.N.M.I.T. , V.T.U. with 68%

Research Publications (THREE SCIE (TWO Q2 WITH IF 3.1))

Journal Articles

- 1 R. Singh, L. J. J. Mir, *et al.*, “Smart healthcare system with light-weighted blockchain system and deep learning techniques,” *Computational Intelligence and Neuroscience*, vol. 2022,
- 2 L. J. J. Syed akram Selvakumar S *et al.*, “Role of industry to improve outcome based education in engineering,” *Journal of Engineering Education Transformations*, vol. 2015,
- 3 L. JJ, K. Singh, and B. Chakravarthi, “Digital forensic framework for smart contract vulnerabilities using ensemble models,” *Multimedia Tools and Applications*, pp. 1–44, 2023.
- 4 P. S. Lohith J J *et al.*, “Tp-detect: Trigram-pixel based vulnerability detection for ethereum smart contracts,” *Multimedia Tools and Applications*, pp. 1–15, 2023.

Conference Proceedings

- 1 G. Kannan, M. Pattnaik, G. Karthikeyan, B. E, P. J. Augustine, and L. J J, “Managing the supply chain for the crops directed from agricultural fields using blockchains,” in *2022 International Conference on Electronics and Renewable Systems (ICEARS)*, 2022, pp. 908–913. [DOI: 10.1109/ICEARS53579.2022.9752088](https://doi.org/10.1109/ICEARS53579.2022.9752088).
- 2 S. Parthasarathy, A. Harikrishnan, G. Narayanan, L. J. J, and K. Singh, “Secure distributed medical record storage using blockchain and emergency sharing using multi-party computation,” in *2021 11th IFIP International Conference on New Technologies, Mobility and Security (NTMS)*, 2021, pp. 1–5. [DOI: 10.1109/NTMS49979.2021.9432643](https://doi.org/10.1109/NTMS49979.2021.9432643).
- 3 L. J. J and B. C. S. B, “Intensifying the lifetime of wireless sensor network using a centralized energy accumulator node with rf energy transmission,” in *2015 IEEE International Advance Computing Conference (IACC)*, 2015, pp. 180–184. [DOI: 10.1109/IADCC.2015.7154694](https://doi.org/10.1109/IADCC.2015.7154694).



Research Publications (Submitted [Three SCIE])

- (a) Title: Predictive Modelling of Diabetes-Induced Complications: A Machine Learning Approach to Diabetes Retinopathy and Nephropathy Prediction , Journal of Diabetes and Its Complications , **Q3 (SCI)**.
- (b) Title: "Enhancing Oyente: Four New Vulnerability Detections for Improved Smart Contract Security Analysis" International Journal of Information Technology , **Revision submitted, Scopus Indexed.**
- (c) Title: Multi-Modal Attention Fusion Based Deep Convolution Neural Networks for Pedestrian Detection. Journal of Network and Computer applications. **SCI Q2.**
- (d) Title : Enhancing Mythril: Four new modules to detect Vulnerabilities for improved Smart Contract Security Analysis, SN Computer Science **Scopus Indexed.**
- (e) Title: MDL-SPAM: A Multi Model Deep Learning Framework for Email Spam Detection Using VGG-16 and LSTM, Multimedia tools & Applications, Springer **SCIE Q2.**
- (f) Title: Streamlined Mechanism for Smart Contract Security: Mitigating Vulnerabilities and Enhancing Trust in Blockchain Technology, submitted to IEEE International Conference on Blockchain and Cryptocurrency, Ireland, **Scopus Indexed.**
- (g) Title: Unlocking Efficiency in Agricultural Supply Chains: A Secure and Transparent Approach through Blockchain Technology, IEEE ,ICETCS, Bengaluru, **Accepted,Scopus Indexed.**
- (h) Revolutionizing India's Port Sector: A Blockchain-Powered Port Community System for Enhanced Efficiency and Competitiveness, IEEE , ICETCS, Bengaluru, **Scopus Indexed.**
- (i) Exploring Smart Contract Security: Understanding Risks, Detection Methods, and Defense Strategies in Blockchain Technology, IEEE , ICETCS, Bengaluru, **Accepting,Scopus Indexed.**
- (j) Enhancing Wireless Sensor Network Efficiency: Quad-LEACH Implementation for Improved Lifetime, Stability, and Security, IEEE , ICETCS, Bengaluru, **Accepted,Scopus Indexed.**

Skills

Domain Expertise	📖 Blockchain, Cryptography, Computer Networks, Machine Language, Cyber Security, Compiler Design, Network Security.
Practical skills	📖 Cisco packet tracer, Wireshark , Social Engineering Tool Kit, NS2, Meta-mask, Remix IDE , Designing and deploying Smart contracts in test networks, Using Web3 to interact with Smart contracts, Developing Dapps , Cryptool , Animal tool.
Administration skills	📖 <ul style="list-style-type: none">• Served as NBA Coordinator for UG.• Involved in designing Script analysis files using Excel for the department.• Worked as member of NIRF cell.• Served as BOS Member in the department and Designed syllabus for Cryptography , Computer Networks, Blockchain and its Applications , Cyber Security and Information Security.• Served as BOE Member for theory examination in the department.• Served as convener for FDPs/Workshops in the department.• Working as Hostel Warden.• Serving as Vice chairman for B.M.S. Credit Co-Operative Society.

Skills (continued)

- Languages  Strong reading, writing and speaking competencies for English, Kannada, Telugu and Hindi
- Misc.  Academic research, teaching, training, consultation, \LaTeX typesetting and publishing.

Miscellaneous Experience

2018-2023 **Invited Talks:**

- (a) Delivered several Guest Lectures at Krupanidhi Degree College, Bengaluru, PES polytechnic, Bengaluru.
- (b) Served as resource person in the field of Blockchain technology in National conference on BSCT in 2019 at NIT Trichy.
- (c) Delivered an Expert talk on "Blockchain technology" conducted by BMSIT on 22/06/2020.
- (d) Delivered Expert talk on "Hands-on Ethereum Smart contracts" conducted by Bangalore Institute of technology in ATAL FDP on 24/11/2020.
- (e) Delivered talk on "Introduction to Ethereum smart contracts" conducted by LB-SITW, on 25/11/2020.
- (f) Served as a Resource Person for an ATAL FDP conducted by Sona college of Engineering, Salem on "Research challenges in Blockchain technology" on 14/12/2020.
- (g) Served as Resource person on "Hands on session on writing smart contracts using Ethereum " for an AICTE sponsored STTP conducted by Sona college of Engineering, Salem on "challenges and Research directions for Blockchains in the Internet of things" on 5th and 6th January 2021.
- (h) Served as Resource person on "Hands on session on writing smart contracts using Ethereum " for an ATAL FDP conducted by BNMIT, Bengaluru on "Blockchain and its Use Cases" on 18th and 19th January 2021.
- (i) Served as a Resource Person for an AICTE sponsored STTP conducted by Sona college of Engineering, Salem on "challenges and Research directions for Blockchains in the Internet of things" on 11th February 2021.
- (j) Served as Resource person for an AICTE sponsored One week FDP on Blockchain and smart contract technology conducted by NIT Tiruchirappalli on 26-06-2021.
- (k) Invited as Resource person for an ATAL One week FDP on Recent advances trends in Lightweight Cryptography for IoT Security and Blockchain technologies organised by University Institute of Technology, RGPV, Bhopal on 28-07-2021

Invited Talks cont....

- (a) Invited as Resource person in AICTE ATAL FDP on "Blockchain technologies and its Applications" from 06/12/2021 to 10/12/2021 at Manipal Institute of Technology.
- (b) Served as Resource person for ONE Week FDP on "Recent trends in Cyber security and Blockchain technology" Organised by VVCE, Mysuru on 20/04/2022 & 21/04/2022.

- (c) Conducted 2 days workshop on " Blockchain technology & Hands on Ethereum smart contracts" at AIT, Chikkamagaluru on 29/04/2022 & 30/04/2022 as Resource person.
- (d) Invited as Resource person for Expert talk on " Introduction to Blockchain" at HNSNC , virudhnagar Tamilnadu on 10/05/2022.
- (e) Conducted 2 days workshop on " Blockchain technology & Hands on Ethereum smart contracts" at SVIT, Bengaluru on 19/05/2022 & 20/05/2022 as Resource person.
- (f) Invited as Resource person on " Introduction to Cryptocurrency & Blockchain " at RVCE , Bengaluru on 30/05/2022.
- (g) Delivered 3 days sessions on FDP on " Blockchain and AWS " organised by Reva University from 25/07/2022 to 27/07/2022.
- (h) Delivered 1 day sessions on FDP on " Blockchain & IOT applications" organized by dept of CS&E, MSRUAS, Bengaluru on 11/08/2022.
- (i) Served as Resource Person for DST-SERB Sponsored Two Weeks Online Evening Workshop on "INTRODUCTION TO CRYPTOLOGY" from 11th - 12th January 2023, organized by Department of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli.
- (j) Served as Resource Person for ONE WEEK FDP on " Current trends in Blockchain and CyberSecurity" organized by BMSCE during 20/03/2023 to 26/03/2023.
- (k) Delivered 1 day session on FDP on " Blockchain Technology" organized by MLWCE , Hyderabad on 28/03/2023 . URL is available <https://www.youtube.com/watch?v=ALqBCDR3Dro>.
- (l) Delivered 2 days Workshop on " Blockchain and its applications" at Manipal Institute of technology , Manipal on 10/11/2023 and 11/11/2023.
- (m) Delivered 2 days Workshop on " Blockchain and its applications" at Alva's college of Engineering , Moodbidre on 20/11/2023 and 21/11/2023.
- (n) Invited as Resource person on " Cybersecurity and its attacks" on 20/12/2023 at SJCIT , Chikkaballapura.
- (o) Invited as Resource person on " Cybersecurity and its attacks" on 02/01/2024 at DSCE, Bengaluru.

Workshop/FDP attended

- (a) Two week ISTE WORKSHOP on Computer Networking by IIT, Bombay sponsored by ISTE in 2014.
- (b) One Week Faculty Orientation Program conducted by BMSCE in 2011.
- (c) Two Week FDP on Pseudo spectral methods and their applications in solving system of differential equations , Sponsored by GIAN in 2018.
- (d) One week short term course on "Introduction to Cryptography" , Conducted by Dept of CSE , NIT trichy in 2017
- (e) One week short term course on "Introduction to Algorithms" , Conducted by Dept of CSE , NIT trichy in 2017
- (f) One week short term course on "Software Engineering" , Conducted by Dept of CSE , NIT trichy in 2017.
- (g) One week workshop on "Intellectual Property rights, Technology Development & startup-2019" conducted by NIT Trichy in 2019.
- (h) Three Weeks AICTE-STTP on Blockchain Architecture Design and its Use Cases, sponsored by AICTE in 2020.
- (i) Online One Week Faculty Development Program on Python Programming , Sponsored by MHRD and IIT Bombay in 2020.

Youtube Links of My Resources

- (a) <https://www.youtube.com/watch?v=-F7Y4MLHsm8>
- (b) <https://www.youtube.com/watch?v=flnx8lsHF7s>
- (c) <https://www.youtube.com/watch?v=UoY6lIr2D3c>
- (d) <https://www.youtube.com/watch?v=ALqBCDR3Dro>
- (e) <https://www.youtube.com/watch?v=ctMA6Z-Z3qA>

DECLARATION:

I hereby declare that the above written particulars are true to the best of my knowledge and belief.