

Mohamed Sirajudeen Yoosuf, Ph.D.

✉ msyoosuf.research@gmail.com

🌐 <https://orcid.org/0000-0002-4640-4815>

🌐 <https://www.linkedin.com/in/mohamed-sirajudeen-yoosuf/>



Employment History

- Mar 2022 – Current **Assistant Professor**, School of Computer Science and Engineering (SCOPE), VIT University, Amaravati Campus, India.
- July 2021 – Feb 2022 **Assistant Professor**, Department of Computer Science and Engineering (CSE), Vardhaman College of Engineering (Autonomous) Hyderabad, India.
- Feb 2020 – Jan 2021 **Senior Research Fellow**, DST-SERB Cloud Research Lab, Sri Venkateswara College of Engineering (Autonomous), Chennai, India
- Mar 2018 – Jan 2020 **Junior Research Fellow**, DST-SERB Cloud Research Lab, Sri Venkateswara College of Engineering (Autonomous), Chennai, India

Education

- Jan 2017 – May 2022 **Ph.D., Anna University**, Chennai, Tamilnadu, India.
Thesis title: *Improving the Security and Efficiency of Cloud Based Electronic Document Management System (E-DMS)*
Funded by: *Department of Science and Technology, Science and Engineering Research Board (DST-SERB), Government of India*
- July 2013 – July 2015 **M.E. Computer Science and Engineering, Anna University**, Chennai, Tamilnadu, India.
Thesis title: *Investigating Vulnerabilities in a Network using Kali Linux and machine learning.*
- July 2009 – May 2013 **B.Tech. Information Technology, Anna University**, Chennai, Tamilnadu, India.
Thesis title: *Digital Image Security with Cryptography and Steganography.*

Research Publications

Journal Articles

- 1 Muralidharan, C., **Yoosuf, M.S.**, Shitharth, S., Alhebaishi, N., Mosli, R. H., & Alhelou, H. H. (2022). Three-Phase Service level Agreements and Trust Management Model for Monitoring and Managing the Services by Trusted Cloud Broker. *IET Communications*, 1–12. [doi:https://doi.org/10.1049/cmu2.12484](https://doi.org/10.1049/cmu2.12484)
- 2 **Yoosuf, M.S.**, & Anitha, R. (2022a). LDuAP: Lightweight Dual Auditing Protocol to Verify Data Integrity in Cloud Storage Servers. *Journal of Ambient Intelligence and Humanized Computing*, 13(8), 3787–3805. [doi:https://doi.org/10.1007/s12652-021-03321-7](https://doi.org/10.1007/s12652-021-03321-7)
- 3 **Yoosuf, M.S.**, & Anitha, R. (2022b). Low Latency Fog-Centric Deduplication Approach to Reduce IoT Healthcare Data Redundancy. *Wireless Personal Communications*, 1–15. [doi:https://doi.org/10.1007/s11277-022-09752-5](https://doi.org/10.1007/s11277-022-09752-5)
- 4 **Yoosuf, M.S.**, Muralidharan, C., Shitharth, S., Alghamdi, M., Maray, M., & Rabie, O. B. J. (2022). Fogdedupe: A Fog-Centric Deduplication Approach using Multi-Key Homomorphic Encryption Technique. *Journal of Sensors*, 1–16. [doi:https://doi.org/10.1155/2022/6759875](https://doi.org/10.1155/2022/6759875)

- 5 **Yoosuf, M.S.**, & Anitha, R. (2021). Lightweight Fog-Centric Auditing Scheme to Verify Integrity of IoT Healthcare data in the Cloud Environment. *Concurrency and Computation: Practice and Experience*, 33(24), e6450. [doi:https://doi.org/10.1007/s11277-022-09752-5](https://doi.org/10.1007/s11277-022-09752-5)
- 6 **Yoosuf, M.S.**, & Anitha, R. (2020). Forgery Document Detection in Information Management System using Cognitive Techniques. *Journal of Intelligent & Fuzzy Systems*, 39(6), 8057–8068. [doi:DOI : 10 . 3233/JIFS-189128](https://doi.org/10.3233/JIFS-189128)



Conference Proceedings

- 1 **Yoosuf, M.S.**, & Anitha, R. (2019). Matrix-based data security in cloud computing using advanced cramer–shoup cryptosystem. In *Emerging technologies in data mining and information security* (pp. 271–282). AISC Springer.
- 2 **Yoosuf, M.S.**, Muralidharan, C., & Anitha, R. (2019). Efficient Deduplication on Cloud Environment using Bloom Filter and IND-CCA2 Secured Cramer Shoup Cryptosystem. In *International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI 2019)* (pp. 714–723). LNCS Springer. [doi:https://doi.org/10.1007/978-3-030-34080-3_80](https://doi.org/10.1007/978-3-030-34080-3_80)
- 3 **Yoosuf, M.S.**, & Anitha, R. (2018). Survey on Homomorphic Encryption. In *International Conference for Phoenixes on Emerging Current Trends in Engineering and Management (ICICI 2019)* (pp. 70–74). Atlantis Press.
- 4 Raju, S., & **Yoosuf, M.S.** (2014). Data security in cloud computing using cramer-shoup cryptosystem. In *2014 international conference on contemporary computing and informatics (IC3I 2014)* (pp. 343–346). IEEE.





Books and Chapters

- 1 Shivaprasad, D., **Yoosuf, M.S.**, Selvaramalakshmi, P., & Patil, M. (2023). Problems and demanding situations in traditional cryptography: An insistence for quantum computing to secure private information. In *Evolution and applications of quantum computing* (pp. 213–232). Scrivener Publishing.
- 2 Muralidharan, C., **Yoosuf, M.S.**, & Rajkumar, Y. (2022). Empowerment of internet of things through the integration of blockchain technology. In *Blockchain and deep learning* (pp. 147–157). [doi:https://doi.org/10.1007/978-3-030-95419-2_7](https://doi.org/10.1007/978-3-030-95419-2_7)
- 3 Padmavathy, T., Muralidharan, K., & **Yoosuf, M.S.** (2022). Cloud-based industrial iot infrastructure to facilitate efficient data analytics. In *Cloud analytics for industry 4.0* (pp. 31–52). [doi:DOI : 10 . 1515 / 9783110771572-003](https://doi.org/10.1515/9783110771572-003)
- 4 Uma, R., Nallarasu, K., **Yoosuf, M.S.**, Murukan, K., & Sankar Ram, C. (2022). 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)*. [doi:DOI:10.4018/978-1-6684-3610-3](https://doi.org/10.4018/978-1-6684-3610-3)
- 5 Vinothiyalakshmi, P., Muralidharan, C., **Yoosuf, M.S.**, & Anitha, R. (2022). Digitized Land Registration using Blockchain Technology. In *Blockchain technology* (pp. 73–86). [doi:https://doi.org/10.1201/9781003138082](https://doi.org/10.1201/9781003138082)
- 6 Muralidharan, C., **Yoosuf, M.S.**, & Anitha, R. (2021). Synergy of internet of things with cloud, artificial intelligence and blockchain for empowering autonomous vehicles. In *Deep learning and big data for intelligent transportation* (pp. 225–244). [doi:https://doi.org/10.1007/978-3-030-65661-4_11](https://doi.org/10.1007/978-3-030-65661-4_11)
- 7 Muralidharan, C., **Yoosuf, M.S.**, & Anitha, R. (2020). Patient report analysis for identification and diagnosis of disease. In *Machine learning for healthcare* (pp. 129–158). [doi:DOI:10.1201/9780429330131-10](https://doi.org/10.1201/9780429330131-10)



Patents

- IN201841038564  Search and Place Filter (SPF) - A Probabilistic Data Structure for Virtualization.
Status: Responded to FER Report – Awaiting Grant
- IN202141045571  Smart Cap For Hair Density Measurement (or) Growth Analysis.
Status: Received FER Report

Skills

- Languages  Strong reading, writing and speaking competencies for English
- Coding  Java, , Python, R, SQL
- Databases  MySQL, PostgreSQL, SQLite.
- Misc.  Academic research, teaching, training, consultation, Research Guidance

Project Funding Proposals




- 2023  **DigiSafe: Ensuring the Data Security and Privacy in Electronic Document Management System (E-DMS) using Blockchain Consensus Model**, State University Research Excellence(SURE), Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India. **Estimated cost:** Rs. 29,95,908 **Status:** Under Review
- 2022  **BC-Audit: Blockchain-based Privacy-Preserving Public Auditing using Fog Nodes for Electronic Document Management System (E-DMS)**, Dr. D. S. Kothari Research Grant for Newly Recruited Faculty Members ,University Grant Commission (UGC), Ministry of Human Resource Development (HRD), Government of India. **Estimated cost:** Rs. 10,00,000 **Status:** Under Review

Miscellaneous Experience



Awards and Achievements

- 2022  **National Intellectual Property Awareness Mission (NIPAM) Volunteer**, Intellectual Property Office, India.
- 2019  **Registered Patent Agent**, Intellectual Property Office, India.
-  **Senior Research Fellowship**, Science and Engineering Research Board (DST-SERB), Government of India.
-  **Appreciation for Mentorship** - Smart India Hackathon (SIH-2019),
- 2017  **Junior Research Fellowship**, Science and Engineering Research Board (DST-SERB), Government of India.
- 2015  **Post Graduate - Intramural Research Fellowship**, Sri Venkateswara College of Engineering (Autonomous), Chennai, India.
- 2014  **Merit-Cum Means Fellowship**, Ministry of Minority Affairs, Government of India.


Certification

- 2017  **NPTEL Cloud Computing**. Awarded by IIT, Kharagpur.
-  **NPTEL Introduction to Data Analytics**. Awarded by IIT, Madras.
-  **NPTEL Privacy and Security in Online Social Media**. Awarded by IIIT, Delhi.

Ph.D. Guidance

- Mr. DD Shivaprasad  Guiding Full-Time Ph.D Scholar in the area of Cyber Security at VIT-AP University, Amaravati, Andhra Pradesh.
- Mr. Ahmad Abubakar Mustapha  Guiding Full-Time Ph.D Scholar in the area of Lightweight Machine Learning algorithm at VIT-AP University, Amaravati, Andhra Pradesh.

Edited Books

- 2023  Drone Technology:Future Trends and Practical Applications. Edited by, Sachi Nandan Mohanty, JVR Ravindra. G Surya Narayana, **Yoosuf M.S.** Publisher: Scrivener Publishers

Personal Details

Full Name	Dr Y Mohamed Sirajudeen
Father Name	Mr. J Yoosuf
Nationality	Indian
Passport No:	k7505128
Date of Birth	17-April-1992
Age	31 Yrs
Marital Status	Married
Mail ID:	msyoosuf.research@gmail.com
Mobile:	+91-07200805880
Address for communication	30, Yazeer Illam, Hameempuram North Street, Melapalayam, Tirunelveli, Tamilnadu, India - 627 005

References

Dr R Anitha

Professor and Head
Department of Computer Science and Engineering,
Sri Venkateswara College of Engineering,
Sriperumbudur, Tamilnadu, India.
ranitha@svce.ac.in

Dr Raju Shanmugam

Professor and Dean
School of Computational Intelligence,
Karnavati University.,
Gujarat, India.
raju@karnavatiuniversity.edu.in

Dr S Shitharth

Associate Professor,
School of Computer Science and Engineering,
Kebri Dehar University,
Ethiopia.
shitharth.s@ieee.org