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Department of Computer Science and Information Technology
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DR. KHALEEL AHMAD | ASSISTANT PROFESSOR

CURRENT DESIGNATION/ INVOLVEMENT

Currently working as an Assistant Professor in the Department of Computer Science and Information Technology, School of Technology, Maulana Azad National Urdu University (A Central University), Hyderabad, Telangana, India, since 3rd February 2014.

AREA OF SPECIALIZATION

Blockchain Technology, Cyber Security, Cryptography, Opportunistic Network

ACADEMIC RESEARCH FELLOWSHIPS/PROJECTS

- **International Fellowship:** SIR/2022/000040 Dated 12 May 2022

Awarded SERB *International Research Experience (SIRE) Fellowship* for the year 2022-2023 funded by the Science and Engineering Research Board, Govt. of India for six months. **Grant: 1.58 Million INR / 19841 USD**

Worked on Blockchain Technology with **Prof. Laura Emilia Maria Ricci in the Department of Computer Science, University of Pisa, Italy (Founded in 1343)** from July 2022 to Jan 2023.

- **Project:** Secure Communication in Opportunistic Network Using Asymmetric Cryptography

Cost: 1,05,000 INR, Funded by: Maulana Azad National Urdu University, Hyderabad (2016-2017)

VISITING FACULTY

- Visited the Tashkent University of Information Technologies named after Muhammad Ibn Musa Al-Khwarizmi, Uzbekistan, as a Visiting Faculty from 20th October 2025 to 24th October 2025.
- Visited the Tashkent University of Information Technologies named after Muhammad Ibn Musa Al-Khwarizmi, Uzbekistan, as a Visiting Faculty from 26th September 2023 to 08th October 2023.
- Visited the National Defence University of Malaysia (UPNM), Malaysia, as a Visiting Faculty from 26 Dec 2018 to 06 Jan 2019.

ACADEMIC AND ADMINISTRATIVE EXPERIENCE

- Serving as a Warden
- Worked as an Assistant CPIO
- Worked as a Convener for NAAC Criteria 3
- Academic Coordinator

	• Member, Board of Studies, Dept. of CS & IT, MANUU • Member, School Board, School of Technology, MANUU
EDUCATIONAL QUALIFICATION	• M.Tech, Ph.D. (Computer Science & Engineering)
CERTIFICATIONS	• Completed a 12-week course on “Blockchain and its Applications” from IIT Kharagpur, India in April 2024. • Completed a Certificate Course on “Hyperledger Developer” from Blockchain Council on 27 February 2023. • Completed a Certificate Course on “Hyperledger Fabric” from ACTE Technologies in April 2023. • Completed a Certificate Course on “Hyperledger Fabric Fundamentals (JavaScript)” from Kerala Blockchain Academy on 30 December 2023. • Completed a Certification Course on “Blockchain Essentials” powered by IBM Developer Skills Network on 21 December 2022. • Completed Ankit Fadia Certified “Ethical Hacker Program” on 1st January 2009. • Completed an International Certificate in TESOL/TEFL Program.
TEACHING PROFICIENCY	Blockchain Technology, Cryptography, Network Security, Computer Network, Data Structure, Algorithms,
RESEARCH PUBLICATION DETAILS	Patents: • A Method For Establishing a Secure Communication Over a Network ◦ Khairol Amali Bin Ahmad, Khaleel Ahmad, Ahamed Shareef ◦ Granted 26-05-2023, Filed Country: Malaysia ◦ Patent No: MY-197138-A • Smart Vehicle Monitoring System ◦ Khairol Amali Bin Ahmad, Khaleel Ahmad, Manju Khari, Archit Garg ◦ Granted 06-09-2024, Filed Country: Malaysia ◦ Patent No: MY-204634-A Edited Books: • Ahmad, K., Badar, S., Dulhare, N., Ahamad, J., & Rizvi, M. A. (Eds.). (2025). <i>Fostering Machine Learning & IoT for Blockchain Technology: Smart City Applications, Vol I</i>, Springer. https://link.springer.com/book/9789819640775 • Ahmad, K., Badar, S., Dulhare, N., Ahamad, J., & Rizvi, M. A. (Eds.). (2025). <i>Fostering Machine Learning & IoT for Blockchain Technology: Smart City Applications, Vol II</i>, Springer. https://link.springer.com/book/10.1007/978-981-96-4074-4 • Ahmad, K. A. B., Ahmad, K., & Dulhare, U. N. (Eds.). (2021). <i>Functional Encryption</i>. Cham: Springer. • Dulhare, U. N., Ahmad, K., & Ahmad, K. A. B. (Eds.). (2020). <i>Machine Learning and Big Data: Concepts, Algorithms, Tools and Applications</i>. John Wiley & sons. • Ahmad, K., Doja, M. N., Udzir, N. I., & Singh, M. P. (Eds.). (2019). <i>Emerging Security Algorithms and Techniques</i>. CRC Press.

- **Ahmad, K.**, Udzir, N. I., & Deka, G. C. (Eds.). (2018). *Opportunistic Networks: Mobility Models, Protocols, Security, and Privacy*. CRC Press.
- **Ahmad, K.**, et al. (Eds.). *Proceeding of 1st International Conference on Computers and Electronics Engineering 2016 (ICCEE-2016)*. McGraw Hill.

Journals:

- Naikoo, F. A., **Ahmad, K.**, & Ahmad, K. A. B. (2026). Mix network implementation using ECIES encryption and XOR shuffling. *Scientific Reports*. [Indexing: SCIE, Scopus] [IF: 4.9]
- A. Noorain, **K. Ahmad**, L. E. M. Ricci, "Data Visibility in Enterprise Distributed Ledger Technologies: A Systematic Review of Access Control and Anonymity Mechanisms," *KJAR*, vol. 11, no. 2, pp. 1-32, December 2026, doi:10.24017/science.2026.2.1. [Indexing: Scopus]
- Haque, M. A., **Ahmad, K.**, Arsheen, S., Ricci, L. E. M., & Baiardi, F. (2026). BS-EHR: Blockchain-based secure electronic health record sharing. *Journal of Information and Optimization Sciences*, 47(7), 2695-2712. [Indexing: ESCI (WoS)] [IF: 0.4]
- Khujamatov, H., Jolimbetova, E., **Ahmad, K.**, & Ahmad, K. A. B. (2026). FL-CARE: Federated Learning-Based Contention-Aware and Energy-Balanced Routing for Dense FANETs. *Journal of Computer Science*, 22(8), 2425-2443. [Indexing: Scopus]
- Khan, T., Singh, K., Bhati, B. S., **Ahmad, K.**, Al-Rasheed, A., Getahun, M., & Soufiene, B. O. (2025). Trust-driven approach to enhance early forest fire detection using machine learning. *Scientific Reports*, 15(1), 14480. [Indexing: SCIE, Scopus] [IF: 4.9]
- Arsheen, S., & **Ahmad, K.** (2025). A blockchain-based immunization framework with robust security and reliability. *Intelligent Decision Technologies*, Sage Publisher. 1-15. [Indexing: ESCI, Scopus] [IF: 1.0]
- Arsheen, S., & **Ahmad, K.** (2024). ImmuneChain: A Blockchain-Based Secure and Transparent Vaccine Supply Chain. *SN Computer Science*, Springer, 6, 1-13. [Indexing: Scopus]
- Naikoo, F. A., **Ahmad, K.**, & Ahmad, K. A. B. Design of a mix network with elliptic curve cryptography and XOR shuffling for secure communication with 5-node. *Internet Technology Letters*, Wiley, 1-6. [Indexing: ESCI, Scopus] [IF: 1.2]
- Naikoo, F. A., **Ahmad, K.**, & Ahmad, K. A. (2024). Analyzing processing time and load factor: 5-node mix network with ElGamal encryption and XOR shuffling. *International Journal of Information Technology*, Springer, 1-9. [Indexing: Scopus]
- VT, M. A., Omar, M., Ahamad, J., **Ahmad, K.**, & Khan, M. A. (2024). Deep Learning-Based Speed Breaker Detection. *SN Computer Science*, Springer 5(5), 571. [Indexing: Scopus]
- Khan, T., Singh, K., **Ahmad, K.**, & Ahmad, K. A. B. (2023). A secure and dependable trust assessment (SDTS) scheme for industrial communication networks. *Scientific Reports*, Nature 13(1), 1910. [Indexing: SCIE, Scopus] [IF: 4.9]
- Khan, T., Singh, K., Shariq, M., **Ahmad, K.**, Savita, K. S., Ahmadian, A., & Conti, M. (2023). An efficient trust-based decision-making approach for WSNs: Machine learning oriented approach. *Computer Communications*, 209, 217-229. [Indexing: SCIE, Scopus] [IF: 4.2]
- **Ahmad, K.**, Fathima, M., Hossen, M. S., Ahamed, J., & Ahmad, K. A. B. (2023). Opportunistic Networks: An Empirical Research of Routing Protocols and Mobility Models. *SN Computer Science*, 4(5), 652. [Indexing: Scopus]
- **Ahmad, K.**, Khujamatov, H., Lazarev, A., Usmanova, N., Alduailij, M., & Alduailij, M. (2023). Internet of Things-Aided Intelligent Transport Systems in Smart Cities: Challenges, Opportunities, and Future. *Wireless Communications and Mobile Computing*, 2023. [Indexing: Scopus]

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- Ahsan, M. A., **Ahmad, K.**, Ahamed, J., Omar, M., & Ahmad, K. A. B. (2023). PAPQ: Predictive analytics of product quality in industry 4.0. *Sustainable Operations and Computers*, 4, 53-61. **[Indexing: Scopus]**
 - Ahamed, J., Koli, A. M., **Ahmad, K.**, Jamal, M., & Gupta, B. B. (2022). CDPS-IoT: Cardiovascular Disease Prediction System Based on IoT Using Machine Learning. *International Journal of Interactive Multimedia & Artificial Intelligence*, 7(4). **[Indexing: SCIE, Scopus] [IF: 3.6]**
 - Khujamatov, H., **Ahmad, K.**, Usmanova, N., Khoshimov, J., Alduailij, M., & Alduailij, M. (2022). Fog Computing Capabilities for Big Data Provisioning: Visualization Scenario. *Sustainability*, MDPI, 14(13), 8070. **[Indexing: SCIE, SSCI, Scopus] [IF: 4.1]**
 - Hassan, S. U., Ahamed, J., & **Ahmad, K.** (2022). Analytics of machine learning-based algorithms for text classification. *Sustainable Operations and Computers*, Elsevier, 3, 238-248. **[Indexing: Scopus]**
 - Khan, T., Singh, K., Hasan, M. H., **Ahmad, K.**, Reddy, G. T., Mohan, S., & Ahmadian, A. (2021). ETERS: A comprehensive energy aware trust-based efficient routing scheme for adversarial WSNs. *Future Generation Computer Systems*, Elsevier 125, 921-943. **[Indexing: SCIE, Scopus] [IF: 7.5]**
 - Saračević, M., Sharma, S. K., & **Ahmad, K.** (2021). A novel block encryption method based on Catalan random walks. *Multimedia Tools and Applications*, Springer, 1-18. **[Indexing: SCIE, Scopus] [IF: 3.6]**
 - Abouarork, M., & **Ahmad, K.** (2021). Authentication in opportunistic networks: State and art. *Journal of Discrete Mathematical Sciences and Cryptography*, Taylor & Francis, 24(6), 1689-170. **[Indexing: ESCI, Scopus]**
 - Pavlović, N., Šarac, M., Adamović, S., Saračević, M., **Ahmad, K.**, Maček, N., & Sharma, D. K. (2021). An approach to adding simple interface as security gateway architecture for IoT device. *Multimedia Tools and Applications*, Springer, 1-16. **[Indexing: SCIE, Scopus] [IF: 3.6]**
 - **Ahmad, K.**, Kamal, A., Ahmad, K. A. B., Khari, M., & Crespo, R. G. (2021). Fast hybrid-MixNet for security and privacy using NTRU algorithm. *Journal of Information Security and Applications*, Elsevier 60, 102872. **[Indexing: SCIE, Scopus] [IF: 4.4]**
 - Abouaroek, M., & **Ahmad, K.** (2021). Performance analysis of NTRU algorithm with non-post-quantum algorithms. *Journal of Discrete Mathematical Sciences and Cryptography*, Taylor & Francis, 24(5), 1349-1363. **[Indexing: ESCI, Scopus]**
 - Talukdar, M. I., Hassan, R., Hossen, M. S., **Ahmad, K.**, Qamar, F., & Ahmed, A. S. (2021). Performance improvements of AODV by black hole attack detection using IDS and digital signature. *Wireless Communications and Mobile Computing*, Hindawi, 2021. **[Indexing: Scopus]**
 - Hossen, M. S., **Ahmad, K.**, & Ahmad, K. A. B. (2021). Impact of contacts for message copies, mobile nodes and buffer size in delay-tolerant networks. *International Journal of Innovative Computing and Applications*, InderScience, 12(2-3), 90-97. **[Indexing: Scopus]**
 - bin Ahmad, K. A., Hasan, M. N., Hossen, M. S., & **Ahmad, K.** (2021). Performance Analysis of DEBT Routing Protocols for Pocket Switch Networks. *CMC-Computers Materials & Continua*, 66(3), 3075-3087. **[Indexing: SCIE, Scopus] [IF: 2.4]**
 - Hussain, D., Omar, M., Ahmad, K. A., Adnan, J., & **Ahmad, K.** (2021). Performance comparison between NoSQL (rethinkdb) and mysql database replication from master to slave in big data. *Jurnal Kejuruteraan*, si4(2), 65-69. [https://doi.org/10.17576/jkukm-2021-si4\(2\)-10](https://doi.org/10.17576/jkukm-2021-si4(2)-10). **[Indexing: ESCI, Web of Science] [IF: 0.8]**
 - **Ahmad, K.**, & Kamal, A. (2020). Mix networks: existing scenarios and future directions on security and privacy. *Recent Patents on Engineering*, Bentham Science, 14(3), 310-323. **[Indexing: ESCI, Scopus]**
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- Hassan, R., Pepic, S., Saracevic, M., **Ahmad, K.**, & Tasic, M. (2020). A Novel Approach to Data Encryption Based on Matrix Computations. *Comput. Mater. Contin*, 66, 1139-1153. [Indexing: SCIE, Scopus] [IF: 2.4]
 - **Ahmad, K.**, Sahu, M., Shrivastava, M., Rizvi, M. A., & Jain, V. (2020). An efficient image retrieval tool: query based image management system. *International Journal of Information Technology*, Springer, 12(1), 103-111. [Indexing: Scopus]
 - Khujamatov, K., **Ahmad, K.**, Reypnazarov, E., & Khasanov, D. (2020). Markov chain based modeling bandwidth states of the wireless sensor networks of monitoring system. *International Journal of Advanced Science and Technology*, 29(4), 4889-4903. [Indexing: Scopus]
 - Ahamed, J., Zahid, M., Omar, M., & **Ahmad, K.** (2019). AES and MQTT based security system in the internet of things. *Journal of Discrete Mathematical Sciences and Cryptography*, Taylor & Francis, 22(8), 1589-1598. [Indexing: ESCI, Scopus]
 - Sati, S., & **Ahmad, K.** (2020). Efficient evict policy for PROPHET. *International Journal of Information Technology*, Springer, 12(1), 251-260. [Indexing: Scopus]
 - Husain, D., Omar, M., **Ahmad, K.**, Jain, V., & Wason, R. (2019). Load status evaluation for Load Balancing in Distributed Database Servers. *3c Tecnología: glosas de innovación aplicadas a la pyme*, 8(1), 422-447. [Indexing: ESCI]
 - Abouaroek, M., & **Ahmad, K.** (2019). Node authentication using NTRU algorithm in opportunistic network. *Scalable Computing: Practice and Experience*, 20(1), 83-92. [Indexing: ESCI, Scopus]
 - **Ahmad, K.**, Alam, M. S., & Udzir, N. I. (2019). Security of NoSQL database against intruders. *Recent Patents on Engineering*, Bentham Science, 13(1), 5-12. [Indexing: ESCI, Scopus]
 - Khan, I. I., **Ahmad, K.**, Rizvi, M. A., & Ahmad, K. A. B. (2019). Increased PSNR with improved DWT digital watermarking technique. *International Journal of Innovative Computing and Applications*, InderScience, 10(3-4), 185-193. [Indexing: Scopus]
 - Shrivastava, M., Rizvi, M. A., Sahu, M., & **Ahmad, K.** (2018). IAODV: An Improved AODV Routing Protocol for MANET. *International Journal of Advanced Research in Computer Science*, 9(2). [Indexing: UGC-CARE]
 - **Ahmad, K.**, Fathima, M., Jain, V., & Fathima, A. (2017). FUZZY-PROPHET: a novel routing protocol for opportunistic network. *International Journal of Information Technology*, Springer, 9(2), 121-127. [Indexing: Scopus]
 - Fathima, M., **Ahmad, K.**, & Fathima, A. (2017). Mobility Models and Routing Protocols in Opportunistic Networks: A Survey. *International Journal of Advanced Research in Computer Science*, 8(5). [Indexing: UGC-CARE]
 - **Ahmad, K.**, Alam, M. S., & Rizvi, M. A. (2016). Secure Mobile Commerce in Ad hoc Network Using CAEC2M. *International Journal of Future Generation Communication and Networking*, 9(12), 197-204. [Indexing: ESCI (WoS)]
 - **Ahmad, K.**, & Alam, M. S. (2016). E-commerce security through elliptic curve cryptography. *Procedia Computer Science*, Elsevier, 78, 867-873. [Indexing: Scopus]

Conference Papers:

- Al-Shareeda, S., Ozdemir, G., Jeon, H. S., & **Ahmad, K.** (2026). A Lightweight DL Model for Smart Grid Power Forecasting with Feature and Resolution Mismatch. In *2025 IEEE PES Conference on Innovative Smart Grid Technologies-Middle East (ISGT Middle East)* (pp. 1-5). IEEE. [Indexing: Scopus]
 - Noorain, A., **Ahmad, K.** & Ricci, L. E. M. (2025). Impact of Coalesce Access Control Mechanisms in Distributed Ledger Technology. In *2025 6th*
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International Conference on Data Analytics & Management (ICDAM-2025), London. Springer, 13-15 June 2025. **[Indexing: Scopus]**
doi.org/10.1007/978-3-032-02949-2_5

- Zafar, N., & **Ahmad, K.** (2025). Blockchain-Based Self-Sovereign Identity for Ensuring Traceability and Provenance in Online Social Networks. In *International Conference on Data Analytics & Management* (pp. 151-165). Singapore: Springer Nature Singapore.
- Tabassum, Z., Arsheen, S., **Ahmad, K.**, & Ozdemir, G. (2024). Blockchain-Based Secure e-KYC Solution for Banking System. In *2024 IEEE 16th International Conference on Computational Intelligence and Communication Networks (CICN)* (pp. 565-571). IEEE. **[Indexing: Scopus]**
- Zafar, N., & **Ahmad, K.** (2024). Blockchain-Based Self-Sovereign Identity for Ensuring Traceability and Provenance in Online Social Networks. In *2024 5th International Conference on Data Analytics & Management (ICDAM-2024)*, London. Springer, 14-15 June 2024. **[Indexing: Scopus]**
- **Ahmad, K.**, Ricci, L. E. M., Baiardi, F., & Arsheen, S. (2023). Hyperledger Fabric Enabled Vaccine Intelligent Network to Implement Immunization Program. In *2023 IEEE 12th International Conference on Communication Systems and Network Technologies (CSNT)* (pp. 822-828). IEEE. **[Indexing: Scopus]**
- Naikoo, F., **Ahmad, K.**, & Ahmad, K. A. B. (2022). Anonymity-Enabled Mix Network: Owing to Techniques and Proof of correctness. In *2022 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)* (pp. 176-181). IEEE. **[Indexing: Scopus]**
- Khujamatov, H., Akhmedov, N., Amir, L., & **Ahmad, K.** (2022). Blockchain Adaptation in Healthcare: SWOT Analysis. In *International Conference on Network Security and Blockchain Technology* (pp. 346-355). Springer, Singapore. **[Indexing: Scopus]**
- Arsheen, S., & **Ahmad, K.** (2022). Blockchain-Enabled Immunization System: A Novel Idea to Leverage Reliability and Traceability. In *2022 3rd International Conference for Emerging Technology (INCET)* (pp. 1-5). IEEE. **[Indexing: Scopus]**
- Naikoo, F., **Ahmad, K.**, & Ahmad, K. A. B. (2022). Anonymity-Enabled Communication Channels: Attacks and Defense Methods. In *2022 3rd International Conference for Emerging Technology (INCET)* (pp. 1-6). IEEE. **[Indexing: Scopus]**
- Arsheen, S., & **Ahmad, K.** (2021). SLR: A Systematic Literature Review on Blockchain Applications in Healthcare. In *2021 International Conference on Information Science and Communications Technologies (ICISCT)* (pp. 1-6). IEEE. **[Indexing: Scopus]**
- Abbas, S., & **Ahmad, K.** (2021). Opportunistic Routing Protocols Based on Fuzzy Logic: Present and Future Directions. In *2021 International Conference on Artificial Intelligence and Smart Systems (ICAIS)* (pp. 1055-1060). IEEE. **[Indexing: Scopus]**
- Arsheen, S., Wahid, A., **Ahmad, K.**, & Khalim, K. (2020). Flying ad hoc network expedited by DTN scenario: Reliable and cost-effective MAC protocols perspective. In *2020 IEEE 14th International Conference on Application of Information and Communication Technologies (AICT)* (pp. 1-6). IEEE. **[Indexing: Scopus]**
- Dubey, S., Verma, K., Rizvi, M. A., & **Ahmad, K.** (2018). SWOT analysis of cloud computing environment. In *Big Data Analytics* (pp. 727-737). Springer, Singapore. **[Indexing: Scopus]**
- Sati, S., Sohoub, A., Eltahar, A., Ahmad, K. A. B., **Ahmad, K.**, & Bakeer, A. (2018). Degree contact DC-epidemic routing protocol for opportunistic networks. In *2018 Advances in Wireless and Optical Communications (RTUWO)* (pp. 198-203). IEEE. **[Indexing: Scopus]**
- **Ahmad, K.**, Wahid, A., Quadri, M. P., & Fathima, A. (2015). Parallel virtualization in IaaS in community cloud. In *2015 Fifth International*

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- **Ahmad, K.**, Kumar, G., Rizvi, M. A., & Fathima, A. (2015). A Novel Approach to Enhance QoS of Cell Edge User. In *Emerging Trends in Information Technology* (pp. 86-94). Shroff Publishers. Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, India.
- Wahid, A., **Ahmad, K.**, Tyagi, G., & Rizvi, M. A. (2014). Anti-theft cloud apps for android operating system. In *2014 International Conference on Computational Intelligence and Communication Networks* (pp. 765-769). IEEE. **[Indexing: Scopus]**
- Chaudhary, A., **Ahmad, K.**, & Rizvi, M. A. (2014). E-commerce security through asymmetric key algorithm. In *2014 Fourth International Conference on Communication Systems and Network Technologies* (pp. 776-781). IEEE. **[Indexing: Scopus]**
- Kumar, G., **Ahmad, K.**, Saurabh, A. K., & Doja, M. N. (2014). Data prevention from unauthorized access by Unclassified Attack in Data Warehouse. In *2014 International Conference on Computing for Sustainable Global Development (INDIACom)* (pp. 734-738). IEEE. **[Indexing: Scopus]**
- Tyagi, G., **Ahmad, K.**, & Doja, M. N. (2014). A novel framework for password securing system from key-logger spyware. In *2014 International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT)* (pp. 70-74). IEEE. **[Indexing: Scopus]**
- Wahid, A., Kirmani, M. M., Chaudhary, A., & **Ahmad, K.** (2014). Software Estimation Technique Based on Arithmetic Progression. In *2014 Elsevier Proceedings of International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-14)* (234-238). Elsevier.
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Chapters:

- Noorain, A., **Ahmad, K.**, & Ricci, L. E. M. (2025). Private and consortium blockchain. In *Fostering Machine Learning and IoT for Blockchain Technology: Smart Cities Applications, Volume 1* (pp. 189-213). Singapore: Springer Nature Singapore.
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- Malla, N. A., **Ahmad, K.**, Ricci, L., & Ahmad, K. A. B. (2024). The pandemic: blockchain-based e-voting system, the way forward. In *Diagnosis and Analysis of COVID-19 Using Artificial Intelligence and Machine Learning-based Techniques* (pp. 381-392). Academic Press-Elsevier.
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- **Ahmad, K.**, Kamal, A., & Ahmad, K. A. B. (2019). Discrete logarithm problem. In *Emerging Security Algorithms and Techniques* (pp. 47-57). Chapman and Hall/CRC.
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 - **Ahmad, K.**, Fathima, M., & bin Ahmad, K. A. (2018). Taxonomy of Routing Protocols for Opportunistic Networks. In *Opportunistic Networks* (pp. 85-116). Chapman and Hall/CRC.
 - **Ahmad, K.**, & Shareef, A. (2018). Hands-On Kernel-Based Virtual Machine (KVM). In *Design and Use of Virtualization Technology in Cloud Computing* (pp. 182-193). IGI Global.
 - **Ahmad, K.**, Ansari, M., & Kamal, A. (2018). Hands-On Xen: Installation Guide for Xen Server. In *Design and Use of Virtualization Technology in Cloud Computing* (pp. 221-232). IGI Global.
 - **Ahmad, K.**, & Ansari, M. (2018). Hands-On Vagrant. In *Design and Use of Virtualization Technology in Cloud Computing* (pp. 208-220). IGI Global.
 - **Ahmad, K.**, & Kamal, A. (2017). Hands-On Aerospike. In *NoSQL: Database for Storage and Retrieval of Data in Cloud* (pp. 311-322). Chapman and Hall/CRC. **[Indexing: Scopus]**
 - Ansari, M., & **Ahmad, K.** (2017). Hands-On Cloudant. In *NoSQL: Database for Storage and Retrieval of Data in Cloud* (pp. 333-340). Chapman and Hall/CRC. **[Indexing: Scopus]**
 - **Ahmad, K.**, & Javed, M. (2017). Hands-On Redis. In *NoSQL: Database for Storage and Retrieval of Data in Cloud* (pp. 355-364). Chapman and Hall/CRC. **[Indexing: Scopus]**
 - Hussain, D., & **Ahmad, K.** (2017). Hands-On RethinkDB. In *NoSQL: Database for Storage and Retrieval of Data in Cloud* (pp. 365-376). Chapman and Hall/CRC. **[Indexing: Scopus]**
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 - Wahid, A., Quadri, M. P., Siddiqui, A. T., Kirmani, M. M., & **Ahmad, K.** (2015). Verifiable Response in Heterogeneous Cloud Storage: An Efficient KDC Scheme. In *Handbook of Research on Securing Cloud-Based Databases with Biometric Applications* (pp. 91-108). IGI Global. **[Indexing: Scopus]**
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DETAILS OF
CONFERENCE/SEMINAR
/WORKSHOP/FDP
(PARTICIPATED/PRESEN
TED/ORGANIZED)

Workshop/FDP Organized:

- Coordinated the online mode in **“E-Content Development and Online Pedagogy”** from 25-10-2021 to 30-10-2021 organized by the UGC - Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad, India.
 - organized by the UGC - Human Resource Development Centre, Maulana Azad National Urdu University, Gachibowli, Hyderabad. Organized DRDO Sponsored Faculty Development Program on **“Cyber Security and Forensic”** as a **Convener** from 17-02-2020 to 18-02-2020 at the Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad, India.
 - Organized Teaching Learning Centre (TLC), NITTTR Bhopal Sponsored Workshop on **“Training of Trainers (ToT) for Teachers”** as a **Coordinator** from 11 November 2019 to 15 November 2019 at the Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad, India.
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Workshop/FDP Participated:

- Participated in 12 Weeks NPTEL-AICTE Online Faculty Development Program on **“Blockchain and Its Application”** from 22-01-2024 to 12-04-2024 at Indian Institute of Technology Kharagpur, India.
- Participated in One Week Online Faculty Development Program on **“Emerging Research Trends in Computer Science”** from 16-01-2024 to 20-01-2024 at The School of Computer Science and Information Technology, Maulana Azad National Urdu University, India.
- Participated in One Week Online Faculty Development Program on **“Artificial Intelligence and Quantum Machine Learning (AI & QML)”** from 20-11-2023 to 25-11-2023 at The School of Computer Science and Information Technology, Maulana Azad National Urdu University, India under ATAL Academy.
- Participated in One Week Online AICTE-ISTE approved Orientation/Refresher Programme on **“Pedagogy Workshop on Innovative Teaching and Learning”** Organized by Gandhi Institute For Technology (GIFT), Odisha, India.
- Participated in One Week Online Faculty Development Program on **“Blockchain”** from 14-06-2021 to 18-06-2021 at The LNM Institute of Information Technology, India under ATAL Academy.
- Participated in One Week Online International STTP on **“Blockchain for Digital Transformation”** from 12-08-2021 to 16-08-2021 at CBIT(A), Hyderabad, Telangana, India.
- Participated in One Week Online Workshop on **“Cyber Security and Digital Forensics”** from 26-08-2021 to 30-08-2021 at Aligarh Muslim University, India.
- Participated in One Week Online Faculty Development Program on **“Data Science”** from 22-11-2021 to 26-11-2021 at The School of Computer Science and Information Technology, Maulana Azad National Urdu University, India under ATAL Academy.
- Participated in the 22nd International Conference on Cryptology in India (**INDOCRYPT 2021**) held at the LNM Institute of Information Technology, Jaipur from 13 December 2021-15 December 2021.
- Participated in the National Seminar on **“Synergizing Higher Education in the Context of NEP-2020: Strategies for Implementation”** at Osmania University, Hyderabad, India on 22 December 2021-23 December 2021.
- Participated in One Week Online Training Programme on **“Blockchain Technology and Applications”** from 17-10-2020 to 22-10-2020 at PDPM Indian Institute of Information Technology, Design and Manufacturing Jabalpur, India.
- Participated in One Week Online Faculty Development Program on **“Blockchain”** from 31-08-2020 to 04-09-2020 at the University Institute of Engineering and Technology, India under ATAL Academy.
- Participated in One Week Online National Instructional Workshop on **“Cryptology”** from 22-07-2020 to 06-07-2020 at the School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India.
- Participated in Two Days Online Workshop on **“Introduction to Blockchain”** from 30-07-2020 to 31-07-2020 at the Army Institute of Technology, India.
- Participated in One Week Online Faculty Development Program on **“Blockchain and Machine Learning”** from 29-06-2020 to 03-07-2020 at Gurukula Kangri Vishwavidyalaya, India under ATAL Academy.
- Participated in One Week Online Faculty Development Program on **“Python for Data Science”** from 24-06-2020 to 28-06-2020 Organized by MITS-Madanapalle, AP, India.
- Participated in One Week Online Faculty Development Program on **“Blockchain Technology”** from 08-06-2020 to 12-06-2020 Organized by

Finland Labs (A Unit of Revert Technology Pvt. Ltd.) In Association with National Social Summit, IIT Roorkee.

- Participated in Two Weeks DST. Govt. of India Sponsored Faculty Development Program on **“Sensor Networks, Internet of Things and Internet of Everything”** from 25-11-2019 to 08-12-2019 at Department of CS & IT, Maulana Azad National Urdu University, Hyderabad.
- Participated in UGC-Sponsored Refresher Course in the Subject **“FDP in Computer Science & Information Technology”** from 25-07-2019 to 07-08-2019 at UGC-HRDC, Maulana Azad National Urdu University, Hyderabad, India.
- Participated in a days Faculty Development Program on **“Student Induction”** from 09-05-2019 to 11-05-2019 Organized by AICTE-SCRO, Hyderabad at IARE, Hyderabad.
- Participated in One Week Faculty Development Program on **“Artificial Intelligence and Machine Learning”** from 05-02-2018 to 10-02-2018 Meity, Govt. of India, Sponsored FDP Organized by NIT, Warangal and Vardhman College of Engineering, Hyderabad.
- Participated in Two Days Workshop on **“Number Theory & Its Application”** from 19 March 2018 to 20 March 2018 at the Department of Mathematics & Statistics, University of Hyderabad under UGC-SAP-DSA I.
- Participated in Three Weeks UGC Sponsored Refresher Course on **“Computer Science, Bio-Informatics & Information Technology”** from 08-08-2017 to 28-08-2017 at UGC-HRDC, Maulana Azad National Urdu University, Hyderabad, India.
- Participated in One Week Short Term Course on **“Induction Programme for Newly Appointed Assistant Professors”** from 17 October 2016 to 23 October 2016 organized by UGC-HRDC, Aligarh Muslim University, India.
- Participated in One Week Faculty Development Program on **“Algorithms”** from 20 September 2016 to 27 September 2016 at the Department of CSE, JNTU Hyderabad under TEQIP-II.
- Participated in Three Days International Workshop on **“SMT Solvers Based Cryptanalysis”** from 27 June 2016 to 29 June 2016 at C.R. Rao Advanced Institute of Mathematics, Statistics and Computer Science (AIMSCS), University of Hyderabad Campus, India.
- Participated in Workshop on **“Cyber Security & Malware Analysis”** on 2nd November 2016 at Maulana Azad National Urdu University, Hyderabad.
- Participated in **“93rd Orientation Course”** from 26 November 2015 to 23 December 2015 at UGC_HRDC, University of Hyderabad, Hyderabad, India.
- Participated in a Workshop on **“Information Security Education Awareness”** on 25th February 2014 at MANUU Organized by CSI Hyderabad Chapter and CDAC.
- Participated in Two Weeks Faculty Development Program on **“Emerging Trends and Research Aspects in 3G Wireless Communications”** from 29 May 2013 to 11 June 2013 at the Institute of Technology & Science (ITS), Ghaziabad, India.
- Participated in One Week Workshop on **“Digital Image Processing”** from 18 June 2012 to 22 June 2012 at Chitkara University, Punjab, India.
- Participated in Two Days Workshop on **“Network Security & Applications”** from 5 February 2011 to 6 February 2011 at Aligarh Muslim University, India.

Paper Presented:

- Presented a paper **“Impact of Coalesce Access Control Mechanisms in Distributed Ledger Technology”** at the 6th Springer International Conference on Data Analytics and Management (ICDAM-2025), organized jointly by London Metropolitan University, London, UK in association with

the WSG University, Bydgoszcz, Poland, Europe, Portalegre Polytechnic University, Portugal, Europe, SGGW Management Institute & BPIT, GGSIPU, Delhi on 13th – 15th June 2025.

- Presented a paper on **“Hyperledger Fabric Powered Decentralized Multimedia Management System”** at International Conference on Computational Methods, Data Science & Networking (ICCMDN-2025) organized by the Department of Computer Science and Information Technology, Maulana Azad National Urdu University (A Central University), Hyderabad, India held on 16-17 January 2025.
- Presented a paper **“Blockchain-Based Self-Sovereign Identity for Ensuring Traceability and Provenance in Online Social Networks”** at the 5th Springer International Conference on Data Analytics and Management (ICDAM-2024), organized jointly by London Metropolitan University, London, UK in association with the WSG University, Bydgoszcz, Poland, Europe, Portalegre Polytechnic University, Portugal, Europe, SGGW Management Institute & BPIT, GGSIPU, Delhi on 14th – 15th June 2024.
- Presented a paper on **“Hyperledger Fabric Enabled Vaccine Intelligent Network to Implement Immunization Program”** at the 12th IEEE International Conference on Communication Systems and Network Technologies (CSNT-2023) organized by Technocrats Institute of Technology (Excellence) Bhopal, India on 8th-9th April 2023
- Presented a paper on **“Access Control Mechanism in Distributed Ledgers Technologies-Review and Challenges”** at the 8th International Conference on Research in Intelligent Computing in Engineering (RICE-2023) Organized by Maulana Azad National Urdu University, Hyderabad, India on 01-02 December 2023.
- Presented a paper on **“TrustNetIoT: A Blockchain Framework for Enhanced Security”** at the 8th International Conference on Research in Intelligent Computing in Engineering (RICE-2023) Organized by Maulana Azad National Urdu University, Hyderabad, India on 01-02 December 2023.
- Presented a paper on **“Anonymity-Enabled Communication Channels: Attacks and Defense Methods”** at the 3rd IEEE International Conference of Emerging Technology (INCET 2022) Organized by Jain College of Engineering Belagavi, India on 27th -29th May 2022.
- Presented a paper on **“Blockchain-Enabled Immunization System: A Novel Idea to leverage Reliability and Traceability”** at the 3rd IEEE International Conference of Emerging Technology (INCET 2022) Organized by Jain College of Engineering Belagavi, India on 27th -29th May 2022
- Presented a paper on **“SLR: A Systematic Literature Review on Blockchain Applications in Healthcare”** at the IEEE International Conference on Information Science and Communications Technologies ICISCT 2021 Organized by Tashkent University of Information Technologies named after Muhammad al-Khwarizmi on 03-05 November 2021.
- Presented a paper on **“Opportunistic Routing Protocols Based on Fuzzy Logic: Present and Future Directions”** at the IEEE International Conference on Artificial Intelligence and Smart Systems (ICAIS 2021) Organized by JCT College of Engineering and Technology, Tamilnadu, India on 25th-27th March 2021.
- Presented a paper on **“Node Authentication in Opportunistic Networks: A Survey”** at the National Conference on Emerging Trends and Issues in Information Technology & Communication (ETIITC-18) Organized by Maulana Azad National Urdu University, Hyderabad, India on 17th-18th March 2018.
- Presented a paper on **“A Secured and Efficient Mixnet Using Light Cryptography”** at the National Conference on Emerging Trends and Issues in Information Technology & Communication (ETIITC-18) Organized by Maulana Azad National Urdu University, Hyderabad, India on 17th-18th March 2018.

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- Presented a paper on “**Secure Mobile Commerce in Ad hoc Network Using CAEC2M**” at the 2nd International Conference on Recent Trends in Computer Science and Electronics (RTCSE-2017) Organized by Gyancity Research Lab, MIR Lan in collaboration with Aalborg University, Denmark in **Kuala Lumpur, Malaysia** on 02-03 January 2017.
 - Presented a paper on “**An Improved Task Scheduling Algorithm on E-Learning Using Cloud**” at the 1st International Conference on Computers and Electronics Engineering (ICCEE-2016) Organized by ISRSED, Hyderabad on 9th -10th January 2016.
 - Presented a paper on “**Secure Communication in Opportunistic Network Using ECC-Mixnet**” at the International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016) Organized by Jaipur National University, India on 17th-19th March 2016.
 - Presented a paper on “**Software Estimation Technique Based on Arithmetic Progression**” at the Elsevier Second International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-2014) Organized by Nitte Meenakshi Institute of Technology (NMIT) Bangalore, India on 01-02 August 2014.
 - Presented a paper on “**Increasing False Rejection Rate While Accepting Entries in Presence of CAPTCHA**” at the Elsevier Second International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-2014) Organized by Nitte Meenakshi Institute of Technology (NMIT) Bangalore, India on 01-02 August 2014.
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DETAILS OF KEYNOTE
SPEAKER/RESOURCE
PERSON/ SESSION CHAIR
ETC.

- Delivered the **Lecture on “Blockchain Technology and Use Cases”** in the Five Days Faculty Development Programme on “Emerging Research Trends in Computer Science,” 16-24 January 2024, organized by the Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad.
 - Delivered the **Lecture on “Blockchain Technology”** in the Faculty Development Programme on “Cyber Security in the Era of Artificial Intelligence”, 21st September 2023, organized by the Department of Computer Science, Baba Ghulam Shah Badshah University, J&K.
 - Delivered the **Lecture on “Blockchain Technology”** in the Refresher Course on Information Technology on 24th July 2023, organized by UGC-HRDC, University of Kashmir, Kashmir, India
 - Delivered the **Invited Lecture on “Hands-on Blockchain Based Cyber Security”** in ATAL FDP on Cyber Security, 6-10 December 2021, Organized by Jawaharlal Nehru University (A Central University), Delhi, India.
 - Delivered the **Invited Talk on “Role of Blockchain Technology in Digital Era”** in IEEE International Conference on Information Science and Communications Technologies (ICISCT 2021), 3th, 4th and 5th of November 2021 organized by Tashkent Uzbekistan Tashkent University of Information Technologies, Tashkent, Uzbekistan.
 - Delivered the **Invited Talk on “Blockchain Technology”**, 30 October 2021 Organized by BIT Sindri, Dhanbad, India.
 - Delivered the **Invited Talk on “eContent Development”** in the Workshop on eContent Development and Online Pedagogy from 25 Oct to 30 October 2021 Organized by UGC-HRDC, Maulana Azad National Urdu University, Hyderabad, India.
 - Delivered the **Invited Talk on “Role of Blockchain Technology in Digital Era”** in FDP on Cyber Security in Digital Era, 23-27 August 2021 Organized by Department of Computer Sciences, Baba Ghulam Shah Badshah University, J&K, India.
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- Delivered the **Invited Lecture on “e-Voting System Using Blockchain”** at Department of Computer Science and Engineering, GIET University, Odisha, India on 22 August 2021.
 - **Chaired the Session** in National Conference on Computational Methods, Data Science and Applications (CMDSA-2021), 24-25 May 2021 Organized by Department of Computer Science and Information Technology, Maulana Azad National Urdu University (A Central University), India.
 - Delivered the **Invited Lecture on “Tools for Literature Review”** in a Five-Day Online Workshop on Research Methodology and ICT Tools for Research, 11-19 April 2021 Organized by Maulana Azad National Urdu University (A Central University) in collaboration with Telangana State Urdu Academy, Hyderabad, India.
 - Delivered the **Invited Talk on “Impact of Blockchain Technology on IR 4.0”** in 3rd International Conference on Communication and Computing system (ICCCS-2021), 5-7 February 2021 Organized by Jawahar Lal Nehru University (A Central University), Delhi, India.
 - **Chaired the Session** in 3rd International Conference on Communication and Computing system (ICCCS-2021), 5-7 February 2021 Organized by Jawahar Lal Nehru University (A Central University), Delhi, India.
 - Delivered the **Expert Lecture on “Blockchain Technology”** at Department of Computer Science and Engineering, Sangam University, Rajasthan, India on 28th December 2020.
 - Delivered the **Invited Talk on “Delving IR 4.0 Applications using Blockchain”** in 5th International Conference on Defence & Security Technology (DSTC 2020), 3th and 4th of December 2020 Organized Faculty of Engineering, National Defence University of Malaysia, Malaysia.
 - Delivered the **Invited Talk on “Delving IR 4.0 Applications using Blockchain”** in IEEE International Conference on Information Science and Communications Technologies (ICISCT 2020), 4th, 5th and 6th of November 2020 organized by Tashkent Uzbekistan Tashkent University of Information Technologies, Tashkent, Uzbekistan.
 - **Chaired the Session** in the 1st International Conference on Networks and Cryptology organized by School of Computer and System Sciences, Jawaharlal Nehru University (A Central University), New Delhi, India held on 14-16 June 2019.
 - Delivered the **Invited Lecture on “Cloud Computing Tools”** at UGC-Human Resource Development Centre, Jawaharlal Nehru Technological University, Hyderabad, India on 21st February 2019.
 - **Chaired the Session** in the 2nd International Conference on Computer Science and Electronics, Jan 02-03, 2017, Kaula Lumpur, Malaysia.
 - **Chaired the Session** in the 1st International Conference on Computer and Electronics Engineering, Jan 9-10, 2016, Hyderabad, India.
 - Delivered the **Guest Lecture on “Network security”** at the Department of Computer Science, Telangana University, Telangana, India on 1st April 2015.
 - Delivered the **Guest Lecture on “Information Security”** at the Department of Computer Science, Central University of Haryana (A Central University), India on 27th Nov 2013.
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ACHIVEMENTS

- Presented a paper **“Impact of Coalesce Access Control Mechanisms in Distributed Ledger Technology”** at the 6th Springer International Conference on Data Analytics and Management (ICDAM-2025), organized jointly by London Metropolitan University, London, UK in association with the WSG University, Bydgoszcz, Poland, Europe, Portalegre Polytechnic University, Portugal, Europe, SGGW Management Institute & BPIT, GGSIPU, Delhi on 13th – 15th June 2025. **(Best Paper Award)**
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- Presented a paper on “**Hyperledger Fabric Powered Decentralized Multimedia Management System**” at International Conference on Computational Methods, Data Science & Networking (ICCMDN-2025) organized by the Department of Computer Science and Information Technology, Maulana Azad National Urdu University (A Central University), Hyderabad, India held on 16-17 January 2025. **(Best Paper Award)**
- Presented paper on “**Performance Analysis of NTRU Algorithm With Non Post-Quantum Cryptography Algorithms**” at 2nd International Conference on Networks and Cryptology organized by School of Computer and System Sciences, Jawaharlal Nehru University, New Delhi, India held on 4-6 December 2020. **(Best Paper Award)**
- Presented paper on “**Secure Mobile Commerce in Ad hoc Network Using CAEC²M**” at 2nd International Conference on Recent Trends in Computer Science and Electronics (RTCSE-2017) at Kuala Lumpur, Malaysia, **02-03 January 2017. (Award of Research Excellence)**

DETAILS OF SUPERVISION (M.TECH/PH.D.)

Ph.D.: 03 Awarded
03 Ongoing
M.Tech & MCA: 20+ Awarded
B.Tech.: 20+ Awarded

PROFESSIONAL MEMBERSHIPS

- Life Membership of the Indian Science Congress Association (ISCA).
 - Life Membership No: L27764
- Life Membership of Indian Society for Technical Education (ISTE), India.
 - Membership No: LM 71999
- Life Membership of Cryptography Research Society of India (CRSI), India.
 - Membership No: L/388
- Life Membership of International Association Engineers (IAENG), Hong Kong).
 - Membership No: 107176
- Life Membership of International Association of Computer Science and Information Technology (IACSIT), Singapore.
 - Membership No: 80339566

PERSONAL DETAILS

Father's Name : Mr. Abdul Hamid Khan
Gender : Male
Marital Status : Married
Nationality : Indian
Language Known : English, Urdu, Hindi

Date: 17/09/2026
Place: Hyderabad

(Dr. Khaleel Ahmad)