

## CURRICULUM VITAE

ROHIT KUMAR DAS

### Corresponding Address

Dept. of Computer Science and Engineering  
IIITDM Kurnool, Jagannathagattu Hill, Andhra Pradesh - 518008  
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### Experience

#### Assistant Professor

Dept. of Computer Science and Engineering  
IIITDM Kurnool | Andhra Pradesh  
08/05/2025 – Present

#### Assistant Professor Senior Grade 2

School of Computer Science and Engineering  
VIT-AP University | Andhra Pradesh  
01/08/2023 – 07/05/2025

#### Assistant Professor Senior Grade 1

School of Computer Science and Engineering  
VIT-AP University | Andhra Pradesh  
11/05/2021 – 31/07/2023

#### Assistant Professor

Department of Computer Science and Engineering  
Sikkim Manipal Institute of Technology | Sikkim  
01/08/2020 – 05/05/2021

#### Guest Lecturer

MIT University | Shillong, Meghalaya  
16/08/2018 – 15/12/2018

#### Guest Lecturer

Mizoram University | Aizawl, Mizoram  
01/08/2014 – 31/07/2016

### Education

#### Ph.D.: Information Technology

**Thesis Title:** *Design of Software Defined Network (SDN) based Controller for Internet of Things (IoT)*  
North-Eastern Hill University | Shillong | Meghalaya | India  
2021

#### M.Tech: Information Technology Assam

University | Silchar | Assam | India  
CGPA: 7.55  
2014

#### B.Tech: Information Technology

Mizoram University | Aizawl | Mizoram | India  
CGPA: 7.235  
2012

### Patents (3)

1) **Title:** Multi-Purpose Switch Adaptable for a Specific SDN Based IoT Architecture,  
**Inventor:** Goutam Saha, **Rohit Kumar Das**, Nurzaman Ahmed and Arnab Kumar Maji,  
**Application No.** 201931049931, **Status:** **Granted**

2) **Title:** An improved SDN based IoT system,  
**Inventor:** Goutam Saha, **Rohit Kumar Das**, Nurzaman Ahmed and Arnab Kumar Maji,  
**Application No.** 202131017791, **Status:** **Granted**

**3) Title:** Smart Automated IoT Based Food Feeding System,  
**Inventor:** Rohit Kumar Das,  
**Application No.** 202341039070, **Status:** Published

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**Publications:**

**Journal Articles (8)**

1. **Das, R. K.**, Ahmed, N., Maji, A. K., & Saha, G. (NOVEMBER 15, 2023). Edge Controller-Assisted SDN Architecture for Internet of Things. *IEEE Sensors Journal*. Vol. 23, Issue 22, pp. 28182-28190, DOI: 10.1109/JSEN.2023.3317841. ISSN 1558-1748. (**SCI Impact factor 4.3, Q1**)
2. Gadhamsetty, V. D. A & **Das, R. K.** (2023). ASM-SDN: An Automated Station Migration system in Cluster-Based Heterogeneous Software-Defined Network. *The Journal of Supercomputing*. Vol. 79, Issue 17, pp. 18993-19018, DOI: 10.1007/s11227-023-05392-z, ISSN No. 0920-8542. (**SCI Impact factor 3.3, Q2**)
3. **Das, R. K.**, Ahmed, N., Maji, A. K., & Saha, G. (2022). Nx-IoT: Improvement of conventional IoT Framework by incorporating SDN Infrastructure. *IEEE Internet of Things Journal*, Vol. 10, Issue 3, pp. 2473-2482, DOI: 10.1109/JIOT.2022.3215650. (**SCI Impact factor 10.238, Q1**)
4. Rahman, M. S., & **Das, R. K.** (2022). RTID: On-demand real-time data processing for IoT network. Vol. 62, Part 7, pp. 4721-4725, *Materials Today: Proceedings*, Elsevier, DOI: 10.1016/j.matpr.2022.03.168 (**Scopus**)
5. **Das, R. K.**, Maji, A. K., & Saha, G. (2022). SD-6LN: improved existing internet of things framework by incorporating software defined network approach. *International Journal of Grid and Utility Computing*, Vol. 13, No. 4, pp. 406-413 (2022), DOI: 10.1504/IJGUC.2022.125144 (**Scopus**)
6. **Das, R. K.**, Ahmed, N., Pohrmen, F. H., Maji, A. K., & Saha, G. (2020). 6LESND: An Edge-Based Software-Defined Network for Internet of Things. *IEEE Internet of Things Journal*, Vol. 7, No. 8, pp. 7725-7733, 2020, DOI: 10.1109/JIOT.2020.2990936 (**SCI Impact factor 10.238, Q1**)
7. **Das, R. K.**, Pohrmen, F. H., Maji, A. K., & Saha, G. (2020). FT-SDN: A Fault-Tolerant Distributed Architecture for Software Defined Network. *Wireless Personal Communications*, Vol. 106, No. 2, pp. 1045-1066, 2020, DOI: 10.1007/s11277-020-07407-x (**SCIE Impact factor 2.017, Q2**).
8. Pohrmen, F. H., **Das, R. K.**, & Saha, G. (2019). Blockchain-based security aspects in heterogeneous Internet-of-Things networks: A survey. *Transactions on Emerging Telecommunications Technologies*, Vol. 30, No. 10, pp. e3741, 2019, DOI: 10.1002/ett.3741 (**SCI Impact factor 3.31, Q1**).

**Conference Proceedings (11)**

1. **Rohit Kumar Das**, Akarsh Gupta, Shivam Boda, Parth Joshi, Nurzama Ahmed (2023). A study on the performance of network topologies in SDN-based Edge IoT Network. 2nd International Conference on Data, Electronics and Computing (ICDEC-2023), Mizoram University, India, *Lecture Notes in Networks and Systems*, Springer, vol 1102, (pp. 387-399), DOI: 10.1007/978-981-97-8476-9\_28, ISBN: 978-981-97-8476-9
  2. Gadhamsetty, V. D. A & **R. Kuma** (April 2023). A Study on Advanced Networking using Intelligent Systems Applications. (pp. 1-8) *IEEE 8th International Conference for Convergence in Technology (I2CT)*, Lonavla, India. DOI: 10.1109/I2CT57861.2023.10126117. Electronic ISBN: 979-8-3503-3401-2
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3. **Das, R. K.**, Jha, M., & Harizan, S. (2022). Performance Appraisal of 6LoWPAN and OpenFlow in SDN Enabled Edge-Based IoT Network. In *Advanced Computational Paradigms and Hybrid Intelligent Computing* (pp. 21-29). Springer, Singapore. DOI: 10.1007/978-981-16-4369-9\_3
4. Harizan, S., Kuila, P., & **Das, R. K.** (2022). HSA Based Sensor Nodes Deployment Strategy for Coverage and Connectivity in WSNs. In *Advanced Computational Paradigms and Hybrid Intelligent Computing* (pp. 73-81). Springer, Singapore. DOI: 10.1007/978-981-16-4369-9\_8
5. **Das, R. K.**, Pohrmen, F. H., Maji, A. K., & Saha, G. (2021). FoSDN: A Software-Defined Edge Computation for Resource Constraint Network. In *Proceedings of the International Conference on Computing and Communication Systems* (pp. 463-470). Springer, Singapore. DOI: 10.1007/978-981-33-4084-8\_44
6. **Das, R. K.**, Maji, A. K., & Saha, G. (2021). SD-6LN: Improved Existing IoT Framework by Incorporating SDN Approach. In *International Conference on Innovative Computing and Communications* (pp. 599-606). Springer, Singapore. DOI: 10.1007/978-981-15-5113-0\_48
7. Marshoodulla, S. Z., **Das, R. K.**, & Saha, G. (2019). Big Data Issues in SDN Based IoT: A Review. In *International Conference on Big Data, Machine Learning, and Applications* (pp. 72-82). Springer, Cham. DOI: 10.1007/978-3-030-62625-9\_7
8. Pohrmen, F. H., **Das, R. K.**, Khongbuh, W., & Saha, G. (2018, July). Blockchain-based security aspects in Internet of Things network. In *International Conference on Advanced Informatics for Computing Research* (pp. 346-357). Springer, Singapore. DOI: 10.1007/978-981-13-3143-5\_29
9. **Das, R. K.**, Maji, A. K., & Saha, G. (2019). Prospect of Improving Internet of Things by Incorporating Software-Defined Network. In *Advances in communication, devices and networking* (pp. 537-544). Springer, Singapore. DOI: 10.1007/978-981-13-3450-4\_58. The second International Conference in Communication, Devices and Networking (ICCDN 2018), Sikkim Manipal Institute of Technology, Majhitar, Sikkim
10. Chawngsangpuii, R., Lachhahima, R., Regmi, R., Srivastava, M., & **Das, R. K.** (2016, March). Wi-Fi Control Bot with Real-Time Video Streaming. In *2016 3rd International Conference on Recent Advances in Information Technology (RAIT)* (pp. 570-575). IEEE. DOI: 10.1109/RAIT.2016.7507961
11. **Das, R. K.**, Das, B., & Roy, S. (2014, April). Performance appraisal of learning automata in networks. In *2014 Fourth International Conference on Communication Systems and Network Technologies* (pp. 1110-1113). IEEE. DOI: 10.1109/CSNT.2014.227

### **Book Chapters (2):**

1. Selvaraj, P., **Das, R.K.**, Burugari, V.K., Karri, G.R., Kanmani, P. and Namburu, A. (2024). Blockchain-Based Energy Transmission System. *Cyber Physical Energy Systems* (pp. 291-323). John Wiley & Sons, Ltd. DOI: 10.1002/9781394173006.ch9, ISBN: 9781394173006
2. **Das, R. K.**, & Roy, S (2022). An ML-Driven SDN Agent for Blockchain-Based Data Authentication for IoT Network. In *Blockchain for IoT* (pp. 155-165). Chapman and Hall/CRC. eBook ISBN: 9781003188247

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### **Journal Reviewer**

- a) IEEE Internet of Things
  - b) Wiley Transactions on Emerging Telecommunications Technologies
  - c) Springer Wireless Personal Communication
  - d) IEEE Transactions on Vehicular Technology
  - e) IEEE Sensor
  - e) IEEE Transactions on Mobile Computing
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f) IEEE Transactions on Wireless Communications

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**Resource Person**

- a) AICTE Training and Learning (ATAL) Academy Programme, Department of IT, Mizoram University, Aizawl, India (27th Sept – 4th October, 2019)
- b) AICTE Training and Learning (ATAL) Academy Programme, Department of IT, North-Eastern Hill University, Shillong, Meghalaya, India (5th Oct – 9th October, 2020)
- c) Latex Workshop, Department of CSE, Sikkim Manipal Institute of Technology, Sikkim, India (8th Oct – 14th October, 2020)
- d) 5 Days New Faculty Orientation programme -- CO/PO/Mapping of CO and PO, Center for Teaching and Learning, VIT-AP University (23rd April 2022 - April 2022)

**Invited Talks:**

- a) Drawbacks of IoT and its improvement, on 19<sup>th</sup> July 2022, at Computer Science and Engineering Department, ICFAI University Tripura, India
- b) IoT-enabled Smart Sustainable Cities, Department of Information Technology, on 28<sup>th</sup> February 2023 in IPSG College of Arts & Science, Coimbatore, India
- c) Transforming Real-Time Edge Applications with EdgeAI: Harnessing the Future of Instantaneous Insights, on 8<sup>th</sup> September 2023 in Mizoram University, Short Term Course on “Information and Communication Technology”, Mizoram, India

**Workshop Organized**

- a) FIVE Day Faculty Workshop on “Research Proposal Writing & Funding Opportunities” from 1st March - 5th March 2022, VIT-AP University, Amaravati, Andhra Pradesh
- b) One Day National Level Workshop on “CUDA Programming with Python” sponsored by NVIDIA Deep Learning Institute (DLI) – 9<sup>th</sup> May 2022, VIT-AP University, Amaravati, Andhra Pradesh
- c) FIVE Day Faculty Workshop on “Outcome based Education and National Education Policy” from 27<sup>th</sup> August – 31<sup>st</sup> August 2024, VIT-AP University, Amaravati, Andhra Pradesh

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**Professional Membership**

IEEE Senior Member

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**Personal Details**

Nationality: Indian  
Date of Birth: 05<sup>th</sup> September 1991  
Father's Name: Sisir Kumar Das (L)  
Mother's Name: Swapna Das  
Status: Married  
Spouse Name: Dr. Monali Bordoloi

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**Reference:**

**Prof. Goutam Saha**  
Professor  
Dept. of IT, NEHU, Shillong, Meghalaya  
Ph No. 7980904316

**Dr. Arnab Kumar Maji**  
Associate Professor  
Dept. of IT, NEHU, Shillong, Meghalaya  
Ph No. 9436333083

*I hereby declare that all the information given is correct to the best of my knowledge.*



(ROHIT KUMAR DAS)

Dated: 14<sup>th</sup> May, 2025

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