Dr. Munsifa Firdaus Khan Barbhuyan

Assistant Professor, Dept. of Information Technology, Branch-Cyber Security

Assam Skill University, Mangaldoi, District: Darrang, Assam, Pin-784125

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About me

- Dynamic and innovative Assistant Professor with many years of teaching and research experience in Computer Science, specializing in Wireless Networks, Ad hoc Networks, Information Security and Artificial Intelligence.
- Passionate about contributing to the development of resilient and efficient wireless communication systems through cutting-edge research and collaborative projects.
- Integrate a variety of teaching methods, including lectures, hands-on labs, and project-based learning, to ensure that students not only master theoretical concepts but also gain practical skills relevant to industry needs. By emphasizing continuous assessment and providing constructive feedback, I help students track their progress and develop a deeper understanding of the material.
- My goal is to inspire students to become lifelong learners and innovative thinkers, ready to tackle the challenges of the modern tech world.

Experience

VIT Bhopal University
Madhya Pradesh, India

January-2025 – September 2025

Assistant Professor-Grade II

- Deliver courses in B.Tech. Computer Science & Engineering, B.Tech. Computer Science & Engineering (Artificial Intelligence & Machine Learning), B.Tech. Computer Science & Engineering (Cyber Security & Digital Forensics), B.Tech. Computer Science & Engineering (Cloud Computing & Automation), M. Tech. Computer Science & Engineering (Cyber Security), M. Tech. Computer Science & Engineering (Computational and Data Science) and MCA (Master of Computer Applications)
- Mentored students in academic and research activities, enhancing learning outcomes through innovative teaching methods.
- Active member of departmental committees such as the Anti-Ragging Committee and the Departmental Magazine Committee, as well as the University Core Committee for NAAC.
- Attended professional development programs to remain current in the field.
- Recognized for effective mentorship and consistently positive student feedback.

Assam Down Town University
Assam, India

May- 2022 – December 2024

Assistant Professor

- Develop and deliver courses in BTech CSE(CTIS), BCA(CTIS), BCA(AIML), BSc IT(CTIS), BSc IT(MAIS), Integrated MCA and guided many research based projects.
- Mentor students in academic and research pursuits and enhanced student learning outcomes through innovative teaching methods.

- Engage in departmental and university service, including committee participation in NAAC.
- Attend professional development activities to stay updated in the field.
- Published many book chapters in **Scopus indexed Books** and patents contributing to the field of Computer Science.
- Recognized for effective mentorship and positive student feedback.

Assam University Silchar
Silchar, India

Class of 2021

Ph.D. | Computer Science
- Title: QoS Aware Routing in Mobile Ad Hoc Network
- Fellowship: Maulana Azad National Fellowship
- Published **research papers** in **SCI and Scopus indexed journals** including Wireless Personnel Communication (2023).
- Presented findings at **international conferences**, including IEEE, Springer, etc.
- Published **book chapters** in **Scopus indexed Books** including Cloud Computing Enabled Big-Data Analytics in Wireless Ad-Hoc Networks (2022).
- Developed a **novel algorithm** for Mobile Ad hoc Network, which was published in **SCI indexed journal** "Wireless Personnel Communication" in 2023.

Assam University Silchar
Silchar, India

Class of 2014

M.Sc. | Computer Science
- Courses: Artificial Intelligence, RDBMS, Software Engineering, Compiler, etc.
- Achievement: Gold Medalist
- Project: Implementation of IDEA algorithm.
- Scholarship: Merit-Cum-Means Scholarship

Assam University Silchar

Class of 2012

B.Sc. | Computer Science
- Courses: C, C++, Data Structure and Algorithms, Computer Networks, etc.
- Project: Implementation of DES algorithm
- Scholarship: Merit-Cum-Means Scholarship

K.V Silchar
Silchar, India

Class of 2009

Senior Secondary | Science
- Courses: Physics, Chemistry, Mathematics, Computer Science, etc.

Daffodils School
Silchar, India

Class of 2007

Secondary
- Courses: Mathematics, Science, Social Science, etc.

Awards & Honors

- Merit Certificate (2014)
- Gold Medal Certificate (2014)
- Shri Gourish Chandra Ray Memorial Award (2014)
- Ananya Paul Memorial Award (2014)
- Dr. A. P. J. Abdul Kalam Memorial Medal (2022)

Publications

Papers in Journals & Conference Proceedings

2024

- Ali H. Wheeb and Munsifa Firdaus Khan, "A Survey of Several Machine Learning (ML) Algorithms for Security Solutions in Internet of Things (IoT) Networks", Journal of Artificial Intelligence Research & Advances, 12(1), 10-21.

2023

- Munsifa Firdaus khan and Indrani Das, "DESIGN AND ANALYSIS OF A NOVEL RECTANGULAR-3D POSITION ALLOCATOR TO IMPROVE QoS IN MANET", Wireless Personnel Communication, 2023, 129 (3), 1513-1562.
- Dipankar Chatterjee, Mostaque Md. Morshedur Hassan ,Nazrul Islam , Asmita Ray and Munsifa Firdaus Khan Barbhuyan," A Futuristic Approach to Security in Cloud Data Centers Using a Hybrid Algorithm", 2023, 59 (1), 47.

2020

- Munsifa Firdaus khan and Indrani Das, "Implementation of Random Direction-3D Mobility Model to Achieve Better QoS Support in MANET", International Journal of Advanced Computer Science and Applications (IJACSA), 2020, 11 (10).
- Munsifa Firdaus khan and Indrani Das," Performance Evaluation of Routing Protocols in NS-2 and NS-3 Simulators", International Journal of Advanced Trends in Computer Science and Engineering, 2020, 9, 6509-6517.

2019

- Munsifa Firdaus khan and Indrani Das, "Effect of Different Propagation Models in Routing Protocols", International Journal of Engineering and Advanced Technology (IJEAT), 2019, 9(2).
- Munsifa Firdaus khan and Indrani Das," An Investigation on Existing Routing protocols in MANET", Innovations in Computer Science and Engineering, Lecture Notes in Networks and Systems 74, 2019.

2017

- Munsifa Firdaus khan and Indrani Das, "A study on QoS Aware Routing in Mobile Ad Hoc Network", International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN). IEEE, 2017.

Book Chapters

2023

- Saranga Borah, Partha Pratim Barman, Biswa Jyoti Pegu and Munsifa Firdaus Khan Barbhuyan, "Development of an Android Application on Child Safety", Recent Trends Fostering Future of Engineering, 2023.
- Asmita Ray, Mostaque Md. Morshedur Hassan ,Nazrul Islam , Munsifa Firdaus Khan Barbhuyan and Mehboob Hasan Ben Siraj Barbhuyan," Performance Evaluation of Deep Learning and Machine Learning Methods for Prostrate Cancer Detection", Recent Trends Fostering Future of Engineering, 2023.

2022

- Munsifa Firdaus khan and Indrani Das, "Impact of various parameters on Gauss Markov Mobility Model to support QoS in MANET", Cloud Computing Enabled Big-Data Analytics in Wireless Ad-Hoc Networks, 2022, 85-101.
- Munsifa Firdaus khan and Indrani Das, "Performance analysis of improved mobility models to check their impact on QoS in MANET", Advanced Computing and Intelligent Technologies, 2022, 131-141.

2021

- Munsifa Firdaus khan and Indrani Das, "Analysis of Mobility Models and their impact on QoS in MANET", Computationally Intelligent Systems and their Applications, 2021, 131-141.

Patents

2023 & 2024

- Prolay Ghosh, Dr. C. Mallika, Supriya Vishal Dicholkar, Dr. Jagannath Nirmal, Dr. Munsifa Firdaus Khan Barbhuyan, Hemalata Mahesh Mote, "MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE TECHNIQUES FOR INTRUSION DETECTION IN NETWORK SECURITY", June 2023
- Kandarpa Kalita, Dr. Mostaque Md. Morshedur Hassan, Bhubneswar Das, Dr. Abhijit Bora, Deepjyoti Roy, Dr. Munsifa Firdaus Khan Barbhuyan, Dr. Bhupen Kumar Baruah, Dr. Banani Das and Mehboob Hasan Ben Siraj Barbhuyan, "AN APPARATUS BASED ON DEEP LEARNING BASED METHOD FOR REAL-TIME OBJECT DETECTION AND TRACKING IN VIDEO SURVEILLANCE AND METHOD THEREOF", October 2023.
- Dr. Santanu Koley, Dr. Amrindra Pal, Dr. Arun Uniyal, Dr. Anu Kumari, Dr. Monika Saxena, Dr. Abhisek Roy, Dr. Alok Kumar, Dr. Nitish Das, Dr. Munsifa Firdaus Khan Barbhuyan, Dr. Harsh Kumar, "ARDUINO BASED MACHINE LEARNING COMPUTER DEVICE", April 2025

Professional Service

Editorial Boards

2023
- Editor in "International Journal of Wireless Security and Networks".

2024
- Reviewer in "Journal of Engineering Research and Reports"

Conference Roles

2024
- Technical Session Chair & Reviewer, International Conference on Advance Communication and Intelligent Systems (ICACIS) organized by Warsaw Management University, Poland.

2023
- Technical Session Chair, International Conference on Advance Communication and Intelligent Systems (ICACIS) organized by Jawaharlal Nehru University, India.

References

- Dr. Indrani Das
  Associate Professor, Department of Computer Science
  Assam University Silchar, Assam, India
  Email: indranidas2000@gmail.com

- Prof. (Dr.) Sanjoy Das
  Professor, Department of Computer Science
  Indira Gandhi National Tribal University, Manipur, India
  Email: sanjoy.das@igntu.ac.in

- Prof. (Dr.) T V V L N Rao, PhD (IITD)
  Research Full Professor - MIT INSPIRE
  MIT Art, Design and Technology University
  Rajbaugh, Loni Kalbhor
  Maharashtra-412201
  Email: tvvlnrao@gmail.com, tvvlnrao@mituniversity.edu.in

- Dr. Aanjankumar Sureshkumar
  Assistant Professor, Dept. of Computer Science and Engineering
  Vit Bhopal University, Madhya Pradesh, India, 466114
  Email-aanjan.kumar@vitbhopal.ac.in

- Dr. C. P. Koushik
  Assistant Professor(G2), Dept. of Computer Science and Engineering
  VIT Bhopal University, Madhya Pradesh, India, 466114
  Email: cpkoushik@gmail.com