

Curriculum Vitae

Dr. Mostaque Md. Morshedur Hassan

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Profile Summary

A dedicated academic leader, AI researcher, and industry practitioner with over 19 years of experience in higher education, research, and industry-integrated training. Currently rendering services as Director cum Founder at Alloguido Technologies Pvt. Ltd., Guwahati, leading initiatives in data science, AI-driven solutions, and skill development through industry-oriented, project-based learning, while actively contributing to talent mentoring and research-driven innovation.

Holding a PhD in Computer Science (Gauhati University, 2019) and pursuing a Post-Doctoral Fellowship at Eudoxia Research University, USA, my research interests include AI, Machine Learning, Network Security and GAN-based Image Generation. I have authored peer-reviewed papers, books, and patents, and guided over 500 academic and industrial projects.

Bringing together academic leadership, research expertise, and corporate exposure, I am committed to advancing innovation, quality education, and effective academic governance.

Educational Qualification

- **Post-Doctoral Fellow** (Pursuing), *Eudoxia Research University, USA*
 - **Title of Research:** Generation of Photorealistic Images using Generative Adversarial Networks (GANs).
 - **Date of Registration:** 4th August, 2023

- **PhD**, *Gauhati University, Guwahati*, 2019
 - **Title of Research:** Network Intrusion Detection System Using Genetic Algorithm and Fuzzy Logic.
- **Master of Computer Application (MCA)**, *Allahabad Agricultural Institute – Deemed University, Allahabad*, 2006.

Research Interests

- Artificial Intelligence & Machine Learning (AI/ML)
- Deep Learning (GANs, Image Generation)
- Cybersecurity, Network Intrusion Detection, and Cloud Computing
- Health Informatics & Predictive Analytics

Professional Experience

- **Director cum Founder – Alguido Technologies Pvt. Ltd., Guwahati**
(2026 January – Present)

Academic Roles

- **Principal Instructor – Data Science**, upGrad Education Pvt. Ltd., *Kolkata Centre*
(September 2025 – December 2025)
(Academic Role with Corporate-Academic Exposure)
 - Train and mentor learners to become job-ready Data Analysts and Data Scientists through project-based, industry-aligned instruction.
 - Design and deliver modules on Python, Machine Learning, and Data Visualization with emphasis on employability and applied learning.
 - Guide capstone projects aligned with current market and technological trends.
 - Serve as a Member of the Interview Panel for recruitment of Data Analyst and Data Scientist Instructors.

- **Assistant Professor (Senior)**, Department of Artificial Intelligence & Machine Learning , *Brainware University, Kolkata (January 2025 to August 2025) (8 months)*
- **Assistant Professor**, Faculty of Computer Technology, *Assam down town University, Guwahati*

Appointed through iNurture Education Solutions Pvt. Ltd, Bengaluru

(June 2022 to December 2024) (About 2 years 7 months)

- **Assistant Professor**, Dept. of Computer Science & Engineering, *Scholars Institute of Technology & Management (SITM), Guwahati (March 2020 to May 2022) (About 2 years)*
- **Assistant Professor**, Dept. of Computer Science, *Lalit Chandra Bharali College, Guwahati (March 2008 to January 2020) (About 12 years)*
- **Assistant Professor**, Dept. of Computer Science & Engineering, *IIES College, Guwahati (November 2006 to February 2008) (About 1 year)*
- **Guest Faculty**, *IDOL, Gauhati University, Guwahati (2 years)*
- **Course Coordinator**, *IGNOU (BCA, and MCA Programs) (3 years)*

Industrial Roles

- **Industrial Trainer & Consultant:**
 - Mentored real-world projects for **Rayan Infotech** and **Algoguido Technologies Private Limited**, focusing on software development, web and mobile application development, hosting services, and cloud solutions.
- **Industry Expert – Computer Technology:**
 - Delivered outcome-based, industry-relevant education at Assam down town University through **iNurture Education Solutions Pvt. Ltd.**, integrating real-world expertise, emerging technology trends, and project-based learning to

bridge the academia-industry gap with a strong focus on employability and innovation.

Total Experience

- About 18 years (Academic & Industrial).

Research Contributions & Recognition

PhD Research

- *Network Intrusion Detection System Using Genetic Algorithm and Fuzzy Logic in the department of Faculty of Technology, Gauhati University, Guwahati under Prof. Hemanta Kr. Baruah, Former Vice-Chancellor, Bodoland University.*

Post-Doctoral Research

- *Generation of Photorealistic Images using GANs with a focus on enhancing image fidelity and resolving blurry image challenges.*

Recent Publications

- **Journal:** "Energy efficient cyber-physical control of renewable microgrids using edge-AI enabled IoT and secure blockchain coordination", Scientific Reports (2026), DOI: <https://doi.org/10.1038/s41598-026-50169-y>
- **Journal:** "CottonNet-MHA: A Model for Detecting Cotton Disease Based on Deep Learning", Frontiers in Plants Science, November 21, 2025, DOI: <https://www.frontiersin.org/journals/plant-science/articles/10.3389/fpls.2025.1664242/full>

Indexed in SCIE/Scopus, IF: 4.8

- **Journal:** "An Improved Hybrid Feature Selection and Classification Framework for Breast Cancer Detection Using Mammography Images", Ain Shams Engineering Journal, November, 2025, DOI: <https://doi.org/10.1016/j.asej.2025.103897>

Indexed in SCIE/Scopus, IF: 5.9

- **Proceeding Paper:** "Exploring the Future of Connectivity: A Comprehensive Review of Wireless and Optical Communications" **(Accepted for Publication)**

Publications

- **Journal:** "Current Studies on Intrusion Detection System, Genetic Algorithm and Fuzzy Logic", *International Journal of Distributed and Parallel Systems*, 2013.
- **Journal:** "Network Intrusion Detection System using Genetic Algorithm and Fuzzy Logic", *International Journal of Innovative Research in Computer and Communication Engineering*, 2013.
- **Journal:** "Fuzzy Classifier for IDS Alerts using Genetic Algorithm", *International Journal of Research in Advent Technology (IJRAT)*, 2014.
- **Journal:** "A Futuristic Approach for Security in Cloud Datacenters using Hybrid Algorithm", *Eng. Proc.*, 2023. DOI: <https://doi.org/10.3390/engproc2023059047>.
- **Journal:** "Adopting AI in Methodological Practices: Transforming Predictive Analytics in Health Research", *International Journal of Medical Toxicology & Legal Medicine*, 2024, DOI: <https://doi.org/10.47059/ijmtlm/V27I5/111>
- **Journal:** "Predictive Modeling of Thyroid Cancer Risk and Recurrence using Machine Learning Techniques in Otolaryngology (ENT)", *Journal of Neonatal Surgery*, 2024, 13, 1624-1632.
- **Journal:** "Detection And Recognition Method of Benign Skin Cancer in Dermoscopic Images using Hybrid Feature Fusion Model", *Cuestiones de Fisioterapia*, 2025, DOI: <https://doi.org/10.48047/CU>
- **Journal:** "A Study on Cryptographic Methods for Enhancing Cybersecurity", *International Journal of Mathematics and Statistics*, 2025, DOI: <https://doi.org/10.53555/eijms.v11i1.86>
- **Journal:** "Enhanced NIRMAL Optimizer with Damped Nesterov Acceleration: A Comparative Analysis", *arXiv:2508.16550v1 [cs.IR]* 22 Aug 2025.

- **Journal:** "CottonNet-MHA: A Model for Detecting Cotton Disease Based on Deep Learning", Frontiers in Plants Science, November, 2025, DOI: <https://www.frontiersin.org/journals/plant-science/articles/10.3389/fpls.2025.1664242/full>
- **IEEE Conference Publication:** "Machine Learning Driven Islanding Detection using Random Forest and Scalogram", 2025, 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE), 2025, DOI: [10.1109/ICDCECE65353.2025.11034970](https://doi.org/10.1109/ICDCECE65353.2025.11034970)
- **Book chapter:** "Performance Evaluation of Deep Learning and Machine Learning Methods for Prostate Cancer Detection".
- **Book chapter:** "An Improved and Accurate Post Tagger Model for the Hindi Language".
- **Book:** "AI for Advanced Manufacturing and Industrial Applications", 2025, **ISBN:** 978-81-986993-2-9
- **Book:** "Machine Learning and Artificial Intelligence Multidisciplinary Concepts & Applications", 2025, **ISBN:** 978-81-989673-3-6

Communicated Papers

- **Journal:** "A QR Code-Driven Mobile Application for Modernizing Library Operations: A Technical Approach" (**Accepted**).
- **Journal:** "Realistic Image Generation from Blurry Images using GAN Networks" (**Under review**).
- **Journal:** "Empowering Women through AI: Tools for Reporting and Preventing Workplace Harassment" (**Under review**)
- **Journal:** "Energy Efficient Cyber-Physical Control of Renewable Microgrids Using Edge-AI Enabled IoT and Secure Blockchain Coordination" (**Under review**)
- **Journal:** "Feature Optimization and Classification Performance for Prostate Cancer: Deep Learning vs Machine Learning Approaches" (**Under review**)

Academic Project Guidance

- Guided 500+ projects in Web and Mobile Application Development, Cybersecurity, and Software Engineering.
- Guided final semester projects of MCA, and MSc IT courses of KKHSOU, IDOL, and IGNOU for Distance and Online Education.

Industrial Project Mentorship

- Mentored engineering and software development projects for:
 - **Algoguido Technologies:** Data Science Projects, Web and Mobile Applications, and Cloud Systems.
 - **Rayan Infotech:** Real-time application development and deployment strategies.

Patents

1. **Indian Patent:** "An Apparatus Based on Deep Learning for Real-Time Object Detection and Tracking in Video Surveillance". (Published)
2. **Indian Design Patent:** "Artificial Intelligence-Based Snail Capturing Agriculture Machine". (Published)
3. **Indian Design Patent:** "Compact Intrusion Detecting Cybersecurity System". (Examination Report Generated)
4. **UK Design Patent:** "Generation of Photo Realistic Images using GAN Network". (Filed)
5. **UK Design Patent:** "AI-Secured Biometric Crypto Wallet Device with Quantum-Resistant Firmware". (Filed)

Administrative Support

Demonstrated strong leadership in academic and administrative capacities:

- Head of Department (HoD)
- IGNOU Course Coordinator
- NAAC Committee Technical Lead
- Timetable & Examination Committee Member

- Mentor for Smart India Hackathon
- Online Exam In-Charge at SITM during Covid pandemic
 - **Course Coordinator, IGNOU** at Lalit Chandra Bharali College, Maligaon, Guwahati, responsible for coordinating MCA, and BCA programs under distance and online education.
 - **Online Examination In-charge during the COVID period** – Conducted end-semester examinations online for BCA and BTech courses at Scholars Institute of Technology and Management under Assam Science and Technology University.
 - **Smart India Hackathon Mentor** – Provided mentorship at Scholars Institute of Technology and Management (SITM) and at Assam down town University, Guwahati.
 - **Member, Time Table Preparation Committee** – Actively contributed to time table preparation at SITM and at Assam down town University, Guwahati.
 - **Head of the Department, BCA** – Served as the Departmental Head for the BCA program at Scholars Institute of Technology and Management, Guwahati.
 - **Technical Team In-charge, NAAC Committee** – Led the technical team for the NAAC Committee at LCB College, Guwahati.

Technical Skills

- **Programming:** C, C++, Java, Python, Dart, Flutter.
- **Frameworks:** React JS, Next JS, Angular JS, Django.
- **Databases:** MySQL, PostgreSQL, MongoDB.
- **Cloud:** AWS (EC2, S3, CloudFront, Elastic Beanstalk).
- **Specializations:** Web Development, Android Development, Data Science, AI/ML Solutions, ICT Hardware Configuration, Networking.

Languages Known

- English, Hindi, Assamese, and Bengali

Personal Profile

Name	: Dr. Mostaque Md. Morshedur Hassan
Date of Birth	: 11th May, 1978
Father's Name	: Md. Soleman Haque
Present Address	: AEC Road, Sundarbari Jalukbari, Guwahati-14 Kamrup Metro (Assam)
Mobile	: +91- 8638526521
E- Mail	: mostaq786@gmail.com
Religion	: Islam
Marital Status	: Married
Nationality	: Indian

Declaration

I hereby declare that the above entries made in my CV are true to the best of my knowledge.

Dr. Mostaque Md. Morshedur Hassan

Signature of the candidate