

# RABAB KHAN RONGON

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Personal Website [✉](#) || ResearchGate [✉](#) || LinkedIn [✉](#)



## RESEARCH INTEREST

Human Computer Interaction, Artificial Intelligence, Machine Learning, Software Engineering.

## ACADEMIC CREDENTIALS

### M.Sc. MIST – Military Institute of Science and Technology

April 2024 - Continuing

Department: Computer Science and Engineering || Major: Artificial Intelligence || CGPA: 3.50

*Selected Course Work:* Advanced AI, Advanced ML, Neural Networks, Data Mining, Fuzzy Logic, HCI

### B.Sc. IUBAT – International University of Business Agriculture and Technology

January 2024

Department: Computer Science and Engineering || CGPA: 3.21 out of 4.00 (81%)

*Selected Course Work:* OOP in C++, Data Structure & Algorithm, DBMS, Software Engineering, System Design, Theory of Computation, Computer Architecture, Operating Systems, Micro-processor.

## PUBLICATIONS

### Undergraduate Thesis

[1] *Implementation of Energy Efficiency Cloud Data Center Architecture Model using Green Cloud Simulator for National Data Center of Bangladesh* [✉](#)

Supervised by: Krishna Das [✉](#)

### Journal Paper

[2] Rabab Khan Rongon, Krishna Das, “An Energy Efficient Cloud Data Center Architectural Model for the National Data Center of Bangladesh” in "Journal of Discrete Mathematical Sciences and Cryptography", Volume 27, Issue 6, Page 1905-1917 (Scopus Indexed Q1 Quartile, Cite Score: 3.1) [✉](#)

### Conference Paper

[3] Rabab Khan Rongon, Krishna Das, “Obstacle for implementing sustainable computing in Bangladesh and approach to being sustainable through green cloud computing methodology” in 4th International Conference on Sustainable Computing and Management (SUSCOM-2022) Aug. 23-24, 2022. [✉](#) [✉](#)

[4] Rabab Khan Rongon, M. Akhteruzzaman, S.T. Sharif, K. Das, “Analyzing Risk Level from RoI and VoI for Robust Data Privacy using Fuzzy Inference System” in “IEEE 4th International Conference on Robotics, Electrical and Signal Processing Techniques 2025 [✉](#)

[5] Rabab Khan Rongon, S.K. Prangon, K.Das, S.T. Sharif, A. Ashraf, “Evaluating the Accessibility of Online Pharmacies' Mobile Applications in Bangladesh using Heuristic and Semiotic Analysis” in 2025 IEEE International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN). (In Press)

[6] A. Islam, S. Zaman, **Rabab Khan Rongon**, S.T. Sharif, H. Jahan, “*An Attention-Driven Deep Learning Model for Predicting Human Life Expectancy*” in 3rd International Conference on Big Data, IoT and Machine Learning (BIM 2025). (Accepted)

## MANUSCRIPTS UNDER REVIEW

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[7] *A Real-Time Automated Traffic Violations Detection System for Motorcycles Using YOLOR* – under review for the IEEE 2nd International Conference on Computing, Applications, and Systems.

[8] *Improving CAPTCHA Systems for Better Usability and Accessibility in Mobile Applications* – under review for the IEEE 2nd International Conference on Computing, Applications, and Systems.

[9] *Deep Learning-Based Recognition of Bangla Sign Language Gestures with CNN, VGG16, and MobileNet* – under review for the IEEE 2nd International Conference on Computing, Applications, and Systems.

[10] *A Machine Learning Approach to Analyze Fuel Consumption, Engine Efficiency, and Their Impact on CO<sub>2</sub> Emissions in Maritime Transport* – under review Gazi University Journal of Science.

## ACADEMIC AND RESEARCH PROJECTS

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- **AI-Based Recommendation System for Cloud Service** ☑ *Jan 2023 – May 2023*  
*Course Project – System Design and Analysis (B.Sc.)*
- **Service Management System for Digital Agency (Agency Easy)** ☑ *Jun 2023 – Dec 2023*  
*Capstone Project (B.Sc.)*

## RESEARCH AND PROFESSIONAL EXPERIENCE

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Turing AI <i>Applied AI Test Engineer III</i>	<i>March 2022 – Present</i>
Quantum Robotics and Automation Research Group, MIST <i>Researcher</i>	<i>July 2024 – Present</i>
Miyan Research Institute, IUBAT <i>RA – Research Assistant</i>	<i>Jan 2024 – Oct 2024</i>
IUBAT- International University of Business Agriculture and Technology <i>Department of Computer Science and Engineering</i> <i>TA – Teaching Assistant of Fundamentals of Electronics</i>	<i>Mar 2022 – Dec 2023</i>
TUTORS’ Academic and Admission Care <i>Founder and Senior Instructor of ICT</i>	<i>Feb 2019 – Feb 2022</i>

## PROFESSIONAL CERTIFICATION

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|--|--------------------|
| • Prompt Engineering for ChatGPT, Vanderbilt University ☑    | <i>July, 2023</i>  |
| • Google Analytics for Beginners, Google Analytics Academy ☑ | <i>April, 2021</i> |
| • Introduction to Cloud Computing, IBM ☑                     | <i>June, 2021</i>  |
| • Technical Support Fundamentals, Google ☑                   | <i>June, 2022</i>  |

## TECHNICAL SKILLS

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- **Programming & Scripting Languages:** Python, C++, MATLAB, SQL
  - **Machine Learning & Data Mining:** scikit-learn, pandas, NumPy, TensorFlow.
  - **Research & Simulation Tools:** MATLAB, Green Cloud Simulator, CloudSim, NS2
  - **Data Visualization & Analytics:** Power BI, Excel, Google Data Studio, Python Visualization Libraries
  - **UX & Accessibility Evaluation:** Heuristic Evaluation, Semiotic Analysis, UX Audits, Figma.
  - **Automation & Quality Assurance:** Selenium, Postman, REST Assured, Swagger.
  - **Cloud & Database Technologies:** MySQL, MongoDB, AWS (basic)
  - **Version Control & DevOps:** Git, GitHub, Jenkins (CI/CD)
  - **Academic Writing & Reference Tools:** LaTeX, Overleaf, Microsoft Office
  - **Entrepreneurship:** Market Research, Software Deployment, Managing Agile Team

## SCHOLARSHIPS

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| • <b>Professor Mahmuda Khanam Scholarship:</b> For Academic performance at IUBAT       | <i>Fall 2020</i>   |
| • <b>RL (Bob) Southern Scholarship:</b> For Academic performance at IUBAT              | <i>Summer 2021</i> |
| • <b>Undergraduate Research Publication Grant from Miyan Research Institute, IUBAT</b> | <i>Fall 2024</i>   |

## PROFESSIONAL AFFILIATIONS

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| • IEEE, Graduate Student Member  | <i>June 2025 – Present</i> |
| • IUBAT IT Society, IT Mentor  | <i>May 2020 – Dec 2023</i> |
| • Imperial College Science Club, Vice President of Project and Publication | <i>Feb 2017 – Jan 2018</i> |