Asadullah Bin Rahman

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Research Interests: Image Processing, Machine Learning, Quantum Information, Quantum Machine Learning(QML), Quantum Error Correction(QEC).

Employment

07/2023 – Cont.	◇ **Research Assistant (RA)** at **IoThink Lab** Department of Computer Science and Engineering, Hajee Mohammad Danesh Science and Technology University (HSTU), Dinajpur-5200, Bangladesh.
03/2023 – 09/2023	◇ **Lecturer of Computer Science and Engineering** Govt. Shahid Akbar Ali Science and Technology College (SASTC) (Affiliated to HSTU) Thakurgaon, Bangladesh.

Education

07/2023 – Cont.	◇ **M.Sc.(Engineering) in Computer Science and Engineering** at Hajee Mohammad Danesh Science and Technology University (HSTU) Dinajpur-5200, Bangladesh. Grade: 3.625/4.00 (up to first semester)
01/2017 – 12/2022	◇ **B.Sc.(Engineering) in Computer Science and Engineering** at Hajee Mohammad Danesh Science and Technology University (HSTU) Dinajpur-5200, Bangladesh. Grade: 3.31/4.00

Research Publications

1. **A. B. Rahman**, M. Touhid Islam, M. R. Islam, M. Sohrawordi, and M. N. Sultan, "Enhanced brain tumor classification from mri images using deep learning model," in *2023 26th International Conference on Computer and Information Technology (ICCIT)*, 2023, pp. 1–6. 🔗 DOI: 10.1109/ICCIT60459.2023.10441064.

Teaching Experience

03/2023 – 09/2023	◇ Instructor, SASTC. Theory of Computation and Concrete Mathematics (Undergraduate) CSE258
	◇ Instructor, SASTC. Computer Graphics and Image Processing (Undergraduate) CSE405
	◇ Instructor, SASTC. Machine Learning and Pattern Recognition (Undergraduate) CSE469

Standardized Tests

2023 – 10/08/2025	◇ **IELTS Academic: Overall – 6.5, CEFR Level – B2** Listening – 6.5, Reading – 6.5, Writing – 6.0, Speaking – 6.5 TRF Number: 23BD029064RAHA001A

Skills

Machine Learning	◇ Areas – Computer Vision, Image Processing, Natural Language Processing; Frameworks & Libraries – OpenCV, scikit-learn, NumPy, Pandas, SciPy, Matplotlib, PyTorch, and TensorFlow
Quantum Computing	◇ Area – Quantum Machine Learning; Tools – Qiskit, Cirq, PennyLane, Classiq
Programming	◇ Object Oriented Programming with C++, Java, and Python; Data-structures and Algorithms, Database, Problem solving (300+ on CodeForces, HackerRank, UVa, etc)
Web Dev	◇ HTML, CSS, JavaScript, PHP, and MySQL
Misc.	◇ Linux, Version control using Git and GitHub, LaTeX

Miscellaneous Experience

Awards and Achievements

15/08/2024	◇ **Womanium Quantum + AI 2024 Global Summer School** Program finalist and the Womanium Quantum Solution Launchpad (QSL) fellowship nominee.
19/06/2024	◇ **IBM Quantum Challenge 2024** Successfully completed all 6 labs, finishing **11th** globally. View my certification [here] and my solution notebooks [here].
08/01/2016	◇ **6th Bangladesh Academy of Sciences (BAS) Divisional Science Olympiad** Secured 3rd position in the division and was selected for the national level.
04/09/2015	◇ **5th Physics Olympiad organized by Dinajpur Science Academy** Achieved 7th position.

Professional Development

09/2024 – 05/2025	◇ **QClass24/25** Currently attending the undergraduate and graduate level quantum computing courses, QCourse101-2 and QCourse501-2. **QWorld** and the Faculty of Computing at the **University of Latvia** are conducting this program.
15/07/2024 – 31/07/2024	◇ **Qiskit Global Summer School 2024 – Quantum Excellence** Completed an intensive 10-day quantum computing boot-camp by **IBM Qiskit**. Find my certification [here] and solution notebooks [here].
09/2020	◇ **Python for Everybody Specialization** Completed five modules in this specialization including Python Data Structures and a Capstone project. Coursera Credential ID: [6PL6V9V6K2F9].

References

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