Asadullah Bin Rahman

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Research Interests: Image Processing, Machine Learning, Quantum Information, Quantum Machine Learning(QML), Quantum Key Distribution(QKD).

Employment

03/2023 – 09/2023
- **Govt. Shahid Akbar Ali Science and Technology College (SASTC)** (Affiliated to HSTU) Thakurgaon, Bangladesh
  Lecturer, Department of Computer Science and Engineering.

Education

07/2023 – 12/2024
- **M.Sc.(Engineering) in Computer Science and Engineering** at Hajee Mohammad Danesh Science and Technology University (HSTU)
  Dinajpur-5200, Bangladesh.

01/2017 – 12/2022
- **B.Sc.(Engineering) in Computer Science and Engineering** at Hajee Mohammad Danesh Science and Technology University (HSTU)
  Dinajpur-5200, Bangladesh.

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

03/2023 – 09/2023
- Instructor, SASTC. Theory of Computation and Concrete Mathematics (Undergraduate) CSE 258
- Instructor, SASTC. Web Engineering (Undergraduate) CSE 355
- Instructor, SASTC. Mobile and Wireless Communication (Undergraduate) CSE 415
- Instructor, SASTC. Computer Graphics and Image Processing (Undergraduate) CSE 405
- Instructor, SASTC. Machine Learning and Pattern Recognition (Undergraduate) CSE 469

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	◇ IBM Quantum Computing And 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

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.

Participations

03/06 – 15/08/2024 ◇ **Womanium Quantum + AI 2024** Global Summer School

- ◇ Attended keynotes, seminars, and lab tours conducted by researchers from MIT, IBM, NVIDIA, Fraunhofer ITWM, Xanadu, D-Wave, and other industry experts.
- ◇ Completed multiple modules from leading Quantum Computing organizations: QBronze and QNickel from **QWorld**, Quantum Algorithms Development I & II from **Classiq**, Artificial Intelligence from **Womanium AI**, Quantum Machine Learning from **Xanadu Pennylane**
- ◇ Implemented quantum algorithms and principles to solve quantum problems, including a project on Anomaly Detection using Quantum Machine Learning (QML) in industrial production. My excellence led to my inclusion in the list of finalists and nominated for the QSL fellowship. Here is the GitHub link to my project work.

15/07 – 31/07/2024 ◇ **Qiskit Global Summer School 2024**
Completed an intensive 10-day quantum computing program by **IBM Qiskit**. Find my solution notebooks here.

09/2020 ◇ **Python for Everybody Specialization**
Awarded by Coursera. Coursera Credential ID: 6PL6V9V6K2F9.

References

Available on Request