



Asif Mohammed Saad

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EXPERIENCE

- **Premier University, Chattogram (Lecturer)** May, 2024 - Current
Conducted courses on DBMS, Microprocessors & Microcontrollers, Artificial Intelligence, Mobile Application Development.
- **Mobile Application Development Instructor** December 2024
Employed as instructor for mobile apps development with flutter in Enhancing Digital Government and Economy (EDGE).

EDUCATION

- **Chittagong University of Engineering & Technology** 2025- On going
Master of Science in Computer Science & Engineering
- **Khulna University of Engineering & Technology** CGPA: 3.64
Bachelor of Science in Computer Science & Engineering 2019-2024
- **Chattogram Cantonment Public College** GPA: 5.00
Higher Secondary School Certificate (Board of Intermediate and Secondary Education, Chattogram) 2018
- **Chattogram Cantonment Public College** GPA: 5.00
Secondary School Certificate (Board of Intermediate and Secondary Education, Chattogram) 2016

PERSONAL PROJECTS

- **MNIST image classification with QNN** 2023
Part of q-551 course work
 - Tools & technology used: Pytorch, Classiq SDK
 - This project used quantum technology from Classiq to recognise digit through hybrid QNN.
- **Health Bee** 2022
Part of CSE 3120: Software Engineering and Information Systems Laboratory
 - Tools & technology used: Andriod Studio, CI/CD utility etc.
 - A basic performing mobile app that developed following SE norms and methods, with proper documentation.
- **Website for Bit2Byte** 2022
Part of CSE 3100: Web Programming Laboratory
 - Tools & technology used: JavaScript, C#, HTML, CSS
 - Website has admin panel, user panel, newsletter box, along with basic website features.
- **Introduction to Quantum Chemistry Notebook** 2021
Part of QCourse-511
 - Tools & technology used: Qiskit, Cirq
 - This notebook has tutorial on mapping, encoding scheme, with VQE and QPE in context of quantum chemistry.
- **Piksel** 2021
Part of CSE 2200: Advanced Programming
 - Tools & technology used: Android Studio, Java SDK
 - An android mobile apps where artist can auction their artworks and clients can purchase through bidding.
- **Solution to PennyLane Codebook** 2024
 - Tools & technology used: PennyLane
 - A solution repository for tasks in the PennyLane codebook, from different subdomains of quantum computing.

RESEARCH

- **A. M. Saad, R. Mahmud, and S. Das, “Forecasting Crucial Biogeochemical Indicators of the Southern Ocean for Climate Monitoring Using Modified Kernel-Based Support Vector Regression”, *Proc. 2nd Int. Conf. on Big Data, IoT and Machine Learning (BIM 2023)*, Lecture Notes in Networks and Systems, vol. 867, Springer, Singapore, 2024, pp. 809-823.**
- **A. M. Saad, U. N. Mahi, M. S. Salim, and S. I. Hossain, “Bangla news article dataset”, *Data in Brief*, vol. 2024, Art. no. 110874, ISSN 2352-3409. Available: <https://doi.org/10.1016/j.dib.2024.110874>**

THESIS

Quantum Kernel Techniques for Optimizing Support Vector Machine Performance

2023

This thesis work explores the integration of quantum computing with classical SVMs through quantum-enhanced kernel functions. By utilizing quantum feature maps, quantum phase estimation accelerates kernel computations and improves high-dimensional data separability. It addresses scalability challenges, enhances convergence rates, and optimizes performance in complex, non-linear classification tasks, pushing the boundaries of machine learning with quantum innovations.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, C#, CSS, Bootstrap, Kotlin.

Developer Tools: VS Code, Visual Studio, Sublime Text, Git, Github Actions, Vim etc.

Frameworks: Android SDK, Scikit-learn, Pytest, Django, Flask, Pytorch etc.

Cloud/Databases: Oracle SQL, Firebase.

REFERENCES

Dr. M.M.A. Hashem

Professor

Department of Computer Science & Engineering

Khulna University of Engineering & Technology (KUET), Khulna -9203, Bangladesh.

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POSITIONS OF RESPONSIBILITY

- **Instructor**, Quantum Bangladesh 2025
- **Workshop Manager**, Bit2Byte, KUET 2023
- **General Member**, SGIPC, KUET 2019-2023
- **Session Manager**, SPLASH/ECOOP 2020 2020

ACHIEVEMENTS

- **Dean's Award** based on academic result for 2019-2020 session. 2023