



## Asif Mohammed Saad

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🌐 LinkedIn

### EXPERIENCE

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

### EDUCATION

- **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>**
- **A. M. Saad, U. N. Mahi, “SegFormer Fine-Tuning with Dropout: Advancing Hair Artifact Removal in Skin Lesion Analysis”, *arXiv: Computer Vision and Pattern Recognition*, Published: 02-September-2025**

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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### Syed Md. Minhaz Hossain

Associate Professor

Department of Computer Science & Engineering

Premier University, Chittagong, Bangladesh.

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### Dr. Sk. Imran Hossain

Associate Professor

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## POSITIONS OF RESPONSIBILITY

- **Mentor**, Software Engineering Wing, Premier University Computer Club *Spring, 2025*
- **Instructor**, Quantum School Bangladesh *2025*
- **Workshop Manager**, Bit2Byte (Software Research & Development Community), KUET *2023*
- **General Member**, SGIPC (Special Group Interested in Programming Contest), KUET *2019-2023*
- **Session Manager**, SPLASH/ECOOP 2020 *2020*

## ACHIEVEMENTS

- **Dean's Award** based on academic result for 2019-2020 session. *2023*
- **Special Mention X Finalist** WISER x Womenium Quantum Program 2025 *2025*