



# ABU QUWSAR OHI

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QuwsarOhi

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Dhaka

## EXPERIENCE

### Research Assistant

#### Bangladesh University of Business & Technology

August 1, 2020 – Ongoing Dhaka, Bangladesh

- Researching new architectural and mathematical strategies to reduce the current limit of deep learning based approaches.
- Developing and improving handwriting recognition systems to classify writers based on their handwriting.
- Researching and developing real-world speaker recognition systems.

## PUBLICATIONS

### Journal Articles

- Ohi, Abu Quwsar, M. F. Mridha, et al. (Dec. 2020). "Exploring optimal control of epidemic spread using reinforcement learning". In: *Scientific Reports* 10.1. DOI: [10.1038/s41598-020-79147-8](https://doi.org/10.1038/s41598-020-79147-8).
- Ohi, Abu Quwsar, MF Mridha, Farisa Benta Safir, et al. (2020). "AutoEmbedder: A semi-supervised DNN embedding system for clustering". In: *Knowledge-Based Systems*, p. 106190. DOI: [10.1016/j.knosys.2020.106190](https://doi.org/10.1016/j.knosys.2020.106190).
- Ohi, A. Q. et al. (2021). "FabricNet: A Fiber Recognition Architecture Using Ensemble ConvNets". In: *IEEE Access* 9, pp. 13224–13236. DOI: [10.1109/ACCESS.2021.3051980](https://doi.org/10.1109/ACCESS.2021.3051980).
- Mridha, MF, Abu Quwsar Ohi, et al. (2020). "BanglaWriting: A multi-purpose offline Bangla handwriting dataset". In: *Data in Brief*, p. 106633.
- Ohi, Abu Quwsar, MF Mridha, Md Abdul Hamid, Muhammad Mostafa Monowar, Dongsu Lee, et al. (2020). "A Lightweight Speaker Recognition System Using Timbre Properties". In: *The Journal of Contents Computing* 2.1, pp. 139–151. DOI: [10.9728/jcc.2020.06.2.1.139](https://doi.org/10.9728/jcc.2020.06.2.1.139).
- Ohi, Abu Quwsar, MF Mridha, Md Abdul Hamid, Muhammad Mostafa Monowar, Md Ferdous Mridha, et al. (2020). "Full Dynamic Transmission Model and Threat Analysis of COVID-19". In: *The Journal of Contents Computing* 2.1, pp. 127–138. DOI: [10.9728/jcc.2020.06.2.1.127](https://doi.org/10.9728/jcc.2020.06.2.1.127).

### Conference Proceedings

- Mridha, MF, Md Saifur Rahman, and Abu Quwsar Ohi (2020). "Human Abnormality Detection Based on Bengali Text". In: *2020 IEEE Region 10 Symposium (TENSYP)*. IEEE, pp. 1102–1105. DOI: [10.1109/TENSYP50017.2020.9230629](https://doi.org/10.1109/TENSYP50017.2020.9230629). URL: <https://arxiv.org/abs/2007.10718>.
- Kabir, Muhammad Mohsin, Abu Quwsar Ohi, Md Saifur Rahman, et al. (n.d.). "An Evolution of CNN Object Classifiers on Low-Resolution Images". In: *IEEE HONET 2020*. IEEE.

## INTERESTS

Deep Learning Pattern Recognition  
Computer Vision Problem Solving  
Research & Development

## PROGRAMMING SKILLS

Python C++ Latex Tensorflow  
Keras Sklearn Matplotlib NumPy

## ACQUAINTED WITH

Linux Git Docker ORM Django  
HTML Bootstrap CSS

## ACHIEVEMENTS

- Programming Contest**  
Total 5 times champion in BUBT Intra University Programming Contest
- National Collegiate Programming Contest (NCPC)**  
Placed among top 31
- ICPC - Dhaka Regional Contest**  
Attended ICPC Dhaka Regional 2 times and placed among top 70
- Inter University Programming Contest**  
Attended more than 5 contests and conquered highest rank 7
- Problem Solver**  
Solved around 2000 problems in various online judges

## PERSONAL PROJECTS

### plagIT

A plagiarism checker for programming languages

plugIT is a plagiarism checker that checks for plagiarism based on the lexical changes of two scripts. plugIT currently supports plagiarism check on C, C++, Python, and Java.

## Book Chapters

- Kabir, Muhammad Mohsin, Abu Quwsar Ohi, and MF Mridha (2020). *A Multi-Plant Disease Diagnosis Method using Convolutional Neural Network*. Springer. URL: <https://arxiv.org/abs/2011.05151>.

## VOLUNTEER EXPERIENCE

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### Problem Setter & Judge

#### Bangladesh University of Business and Technology

 From 2019 – Present

- Planning & managing intra-university programming contests.
- Writing & collecting problem-sets and conducting critical problem-set selection tasks.

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### Conveiner

#### Competitive Programming Community (BUBT)

 From 2019 – Present

- Planning semester-wise schedule for training classes.
- Training & guiding junior competitive programmers.

## ONLINE PROGRAMMING PROFILES

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- Solved 470+ problems in [UVA online judge](#).
- Solved 220+ problems in [LightOJ](#).
- [CodeForces](#) highest rating 1581.
- [CodeChef](#) highest rating 1948.

## EDUCATION

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### B. Sc in CSE

#### Bangladesh University of Business & Technology

 June 2016 – June 2020  Dhaka, Bangladesh

- CGPA - 3.71

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### HSC

#### Savar Cantonment Public School & College

 2013 – 2015  Savar, Dhaka

- GPA - 4.87

## EmployeeManagement

### An employee management system

A web-based employee management system that registers employees & keeps a log of their salary, pay grade, role, and personal information.

## REFEREES

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### Prof. Muhammad Firoz Mridha

@ Bangladesh University of Business and Technology

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### Prof. Md. Abdul Hamid

@ King Abdulaziz University

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### Md. Saifur Rahman

@ Bangladesh University of Business and Technology

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