



# ABU QUWSAR OHI

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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, 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).
- 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).

### 👥 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).

### 📖 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>.

### 📝 Preprints

- Ohi, Abu Quwsar, MF Mridha, Muhammad Mostafa Monowar, et al. (2020). *Exploring Optimal Control of Epidemic Spread Using Reinforcement Learning*. DOI: [10.21203/rs.3.rs-48613/v1](https://doi.org/10.21203/rs.3.rs-48613/v1).

## INTERESTS

Deep Learning

Computer Vision

Pattern Recognition

Algorithms

## PROGRAMMING SKILLS

Python

MySQL

C++

Latex

Tensorflow

Keras

Scikit-Learn

Matplotlib

NumPy

Flask

## ACHIEVEMENTS



### Programming Contest

Total 5 times champion in BUBT Intra University Programming Contest



### National Collegiate Programming Contest (NCP)

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.

### EmployeeManagement

An employee management system

A web-based employee management system that registers employees & keeps a log of

## 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

their salary, pay grade, role, and personal information.

## REFEREES

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