

# Kazi Noshin

Katabon, Bangladesh

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## Personal Profile

I am a recent Computer Science and Engineering graduate. I am currently working as a Lecturer at the Department of Computer Science and Engineering, University of Asia Pacific. Apart from my professional career, I am enthusiastic about research works in Machine learning, Deep learning, Medical AI, and related fields.

## Education

### Bangladesh University of Engineering and Technology (BUET)

Dhaka, Bangladesh

Bachelor of Science in Computer Science and Engineering

Feb 2017 – May 2022

- CGPA: 3.68/4.00

### Ideal School and College

Dhaka, Bangladesh

Higher Secondary Certificate, Science

July 2014 - June 2016

- GPA: 5.00/5.00

### Ideal School and College

Dhaka, Bangladesh

Secondary School Certificate, Science

2004 - 2014

- GPA: 5.00/5.00

## Work Experience

### University of Asia Pacific

Dhaka, Bangladesh

Lecturer

Aug 2022 - Present

- Courses Teaching:**
  - Structured Programming (C)
  - Introduction to Computer Science and Programming Methodology Lab
  - Software Development
- Challenging Responsibilities:**
  - Efficient planning of assignments to enhance the student's ability to understand computer basics.

### BUET-Japan Institute of Disaster Prevention and Urban Safety

Dhaka, Bangladesh

Research Assistant

Supervisor: Dr. Mohammed Eunus Ali (BUET)

July 2022 - Present

- Purpose:**
  - Improvement of Earthquake Early Warning System using graph attention networks

## Research Projects

### Parkinson's Analysis with Remote Tasks

2021 - 2022

Supervisor: Dr. Mohammad Saifur Rahman (BUET)

External Collaborators: Dr. Imran Sarker (NINH, Bangladesh), Dr. Ehsan Hoque (University of Rochester)

- Building a simple automated online PD screening tool by modifying an existing web-based application that can capture audio and video data from participants to identify Parkinson's Disease (PD) in thousands of undiagnosed people in Bangladesh. The goal is to give patients the opportunity for frequent assessment/monitoring without having to schedule neurologists or require them to travel to a healthcare facility.
- Studying the status of people with Parkinson's disease in Bangladesh, using our machine learning-based models.
- Contributing to the ongoing study to improve the condition of the 10 million people worldwide who currently have Parkinson's disease.

### Actionable analytics of cancer

2021-Current

Supervisor: Dr. Mohammad Saifur Rahman (BUET)

External Collaborator: Dr. Abu Zafer Mohammed Dayem Ullah (Barts Cancer Institute)

- Identifying the association of various clinical or molecular factors with the survival of patients diagnosed with cancers.
- Using machine learning techniques to develop a gene mutation-based scoring system for categorizing patients according to their survival potential.

## Notable Projects

## WBC classification

Deep Learning Project

2022

- This project classifies four subtypes of white blood cells from the image data of blood cells.
- Framework : Keras

## CNN from Scratch

Deep Learning Project

2022

- Implemented a convolutional neural network from scratch for an image classification task.
- Language: Python

## DNS cache poisoning

Network Security Project

2021

- An attacker can poison the DNS cache and direct users to a false website in order to gain personal the information which will be a phishing attack.
- Language: C, Tool: VirtualBox VM, WireShark

## SHIKHON - The Admission Helper

Software Development Project

2021

- The targeted users of the platform is University Admission Candidates and the purpose of the application is to provide tutorials, notes, and solutions about a particular topic of a particular subject. The main challenge of this project is to learn how to build an interactive live application.
- Language : Javascript, Library : NodeJS, Database : MongoDB, Frontend : React Native JS

## Lines Of Action (LOA)

Artificial Intelligence Project

2021

- This project provides a platform where the player can play with an AI agent or two players can play with each other.
- Language: Java, Framework: Slick

## Skills

<b>Programming</b>	Python, R, C/C++, Java, javascript, BashScript, HTML, CSS, AWK, TCL
<b>Database</b>	PostgreSQL, MongoDB
<b>Frameworks</b>	Keras, PyTorch, Node.js, React.js, React-native, Bootstrap, Javafx, Slick, OpenGL
<b>Tools/Software</b>	Git, Microsoft Word, PowerPoint, Excel, Figma, MATLAB, Latex, Adobe XD (UI/UX Design), Wireshark, Cisco Packet Tracer, Linux operating system
<b>Libraries</b>	Pandas, NumPy, Matplotlib, SciPy, Scikit-Learn, TensorFlow, OpenFace

## English Proficiency

**TOEFL** Reading: 28, Listening: 25, Speaking: 19, Writing: 25

## Achievements

2022	<b>FE Certificate</b> , Fundamental IT Engineer (FE) level -2 Examination (passed both shifts)	Bangladesh
2009-2016	<b>Merit Scholarship</b> , Primary School, Junior School, Secondary School, and Higher Secondary Certificate	Dhaka Board

## Interests

<b>Baking</b>	I like to bake home-style cream cakes.
<b>Drama Direction</b>	I directed some dramas at my university functions.
<b>Music</b>	I enjoy almost all types of music. I also can play violin at beginner level.

## References

<b>Dr. Mohammad Saifur Rahman</b>	Associate Professor, CSE, BUET, email: mrahman@cse.buet.ac.bd
<b>Dr. Mohammed Eunus Ali</b>	Professor, CSE, BUET, email: mohammed.eunus.ali@gmail.com