

# Bishakha Biswas

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Dhaka, Bangladesh

<https://www.linkedin.com/in/bishakha-biswas/> | <https://github.com/bishakhabiswas> |

<https://bishakha.me/>

## ABOUT

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Prospective computer science Ph.D. student with an interest in machine Learning, deep learning, and applications of artificial intelligence to solve complex systems. Additionally, interested in problem-solving strategies for data structure and algorithms. Previous research experience includes machine learning and image classification using CNN and KNN algorithms to solve complex problems. Passionate to learn and contribute to large-scale projects and to bring innovative contributions to the scientific community, as well as society.

## EDUCATION

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**Bachelor of Science (B.Sc.), Computer Science Engineering (CSE)**

*Feb 2019 - Dec 2022*

**Bangladesh University**, Dhaka, Bangladesh

Dissertation Title: A Secured Telemedicine Scheme based on Distributed Database System, Machine learning and IoT for Diabetes Dataset

Supervisor: Muhammad Minoar Hossain, Lecturer

Department of Computer Science and Engineering  
Bangladesh University

**CGPA: 3.89/4.00, Rank/Position: 2<sup>nd</sup>**

### Key Undergraduate Courses:

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|-------------------|---------------------------|
| ● Data Structure  | ● Database System         |
| ● Algorithm       | ● Machine learning        |
| ● Web Programming | ● Artificial Intelligence |

## EXPERIENCE

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**Research Assistant | Bangladesh University, Dhaka**

*Jan 2022 - Dec 2022*

- Worked on a project on the application of artificial machine learning to detect diabetes from patients' medical datasets.
- Learned and applied different machine-learning algorithms such as support vector machine, KNN, decision tree, naive Bayes, logistic regression, gradient boosting, random forest, etc.

## RESEARCH

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Undergraduate Thesis

### **A Secured Telemedicine Scheme based on Distributed Database System, Machine learning, and IoT for Diabetes Dataset**

**Synopsis:** This research adopts a combination of distributed database systems, machine learning, and the Internet of Things (IoT) to control the patient's data, and detect diabetes based on the dataset. The paper explores monitoring patients' data and controlling them securely under distributed database module. Multiple machine learning algorithms such as Naive bias, support vector machine, and Logistic regression have been applied for comparative analysis. Furthermore, the proposed system will transmit the spotted information to the IoT cloud for real-time data monitoring, and patients will get a result with the help of an alarm or notification in their intelligent devices.

## RESEARCH INTEREST

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Reinforced Learning

Deep learning algorithms for healthcare

Machine learning for high dimensional data

## PROJECTS

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## Web Programming Project

Project Name: Pizza Bhai

Web Programming Language used: PhP, JavaScript, HTML, CSS; Database: MySQL

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## AWARDS AND ACHIEVEMENTS

**Government Merit Scholarship** | Secondary School Certificate (SSC) 2015

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## TRAINING

**Online Certification on Machine Learning for All** | Coursera

**Online training on Competitive Programming** | Devskill

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## SKILLS

**Programming Language:** C, C++ (Object Oriented Programming), Java, Python, PHP, HTML / CSS.

**Python Libraries:** Numpy, Pandas, Matplotlib, Tensorflow, Keras

**Machine Learning and Deep Learning Methods:** SVM, CNN, KNN, RNN algorithms

**Competitive Programming:** Solving strategies, Data Structure and Algorithms

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## EXTRACURRICULAR ACTIVITIES

**Mentor | Special Group for Programming**, Bangladesh University (BU) *Jan 2022 - Present*

- Tutored a group of 4th, 5th, 6th, 7th and 12th grade students

**1<sup>st</sup> Position in English Recitation** 2014

**2<sup>nd</sup> Position in Extempore Speaking [Bengali]** 2014

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## INDUSTRY EXPERIENCE

**MazeGeek** *Aug 2022 - Present*

Role:

- Identifying relevant data sources, collecting structured and unstructured data, sourcing missing data, building machine learning algorithms, and enhancing the data collection process.
- Processing, cleansing & verifying data, preparing reports for executive and project teams, and Creating visualizations of data.

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## STANDARDISED TESTS

**GRE** - Expected Date of exam 14/12/2022

**IELTS** - Expected Date of exam 20/11/2022

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## AFFILIATIONS

- ACM - Association for Computer Machinery
- Institute of Electrical and Electronics Association

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## REFERENCES

### **Dr. Uzzal Kumar Prodhan**

Professor

Department of Computer Science and Engineering, Bangladesh University

[uzzal\\_bagerhat@yahoo.com](mailto:uzzal_bagerhat@yahoo.com)

### **Muhammad Minoar Hossain**

Lecturer

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