

# SHOAIB AHMED DIPU

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## EDUCATION

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### **Brac University, Mohakhali, Dhaka, Bangladesh**

January 2017 - January 2021

Bachelor of Science in Computer Science and Engineering

**CGPA : 3.91 / 4.00**

Thesis : **An Active-Learning based Training-Schedule for Biomedical Image Segmentation on Deep Neural Networks**

Supervisors : [Mahbubul Alam Majumdar](#), [Sowmitra Das](#) and [Shahnewaz Ahmed](#)

### **Rajuk Uttara Model College, Uttara, Dhaka, Bangladesh**

January 2009 - August 2016

Higher Secondary Certificate Examination (H.S.C) : GPA 5.00 / 5.00 (GP 5.00 in All Subjects) 2016

Secondary School Certificate Examination (S.S.C) : GPA 5.00 / 5.00 (GP 5.00 in All Subjects) 2014

## EXPERIENCE

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### **Department of CSE, Northern University Bangladesh**

May 2021 - Present

#### **Lecturer**

- Courses Currently Teaching : Theory of Computation, Compiler Design, Compiler Design Lab Work
- Responsibilities : • Conducting Theory and Lab Classes (Course Load : 15.0-18.0 Credits / Trimester). • Grading Scripts, Setting Up Questions and Invigilating for Exams. • Supervising Thesis / Projects of Undergraduate Students. • Conducting Administrative Tasks assigned by Department and University.

### **Department of CSE, Brac University**

September 2019 - December 2020

#### **Student Tutor (Undergraduate Teaching Assistant)**

- Courses Taught : **CSE110** : Programming Language I (Structured Programming), **CSE111** : Programming Language II (Object Oriented Programming)
- Responsibilities : • Attended Lab Classes and assisted the Faculty Members to conduct the Classes. • Graded Quiz and Assignment scripts. • Provided 15 Hours / Week as Consultation Hours for Students and assisted them with Problem Solving and Exam Preparation. • Selected Learning Materials, Textbooks and Equipment to Facilitate Tutoring and Helped Students to develop Good Study Skills and Habits.

### **Department of MNS, Brac University**

July 2020 - September 2020

#### **Student Tutor (Undergraduate Teaching Assistant)**

- Course Assisted : **MAT216** : Linear Algebra and Fourier Analysis
- Responsibilities : • Typeset Lecture Notes, Assignment Problem Sets and Examination Problem Sets in LaTeX. • Prepared Problem Sets for Assignments and Examinations from Question Pools. • Prepared Short Instruction Tutorials for students to make their transition easier from Regular Semester to Online Semester and **buX**.

### **Office of Academic Advising, Brac University**

January 2019 - December 2019

#### **Student Mentor of First Year Advising Team (FYAT)**

- Responsibilities : • Mentored a group of 60 students throughout their First Year at University. • Let them know all Academic Information, Rules, and Regulations. • Helped them to avail all Opportunities and Facilities of the University.

## TECHNICAL SKILL

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<b>Programming Languages</b>	Java, Python, C/C++
<b>Other Languages</b>	MATLAB, Mathematica, L <sup>A</sup> T <sub>E</sub> X, x86 Assembly, Bash, Verilog
<b>Web Programming</b>	PHP, MySQL, HTML5
<b>Library</b>	TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, JOGL
<b>Software &amp; Tool</b>	Git, Altera Quartus, Microwind, PSpice, emu8086

## HONORS & AWARDS

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**Vice Chancellor's Certificate for Residential Semester, Brac University** March 2018  
**Top 4.4%**

- Vice Chancellor's Certificate for high standard of Discipline and Devotion during Residential Semester at [Savar Campus](#) (Fall 2017).

**VC's List and Dean's List Award, Brac University** May 2017 - January 2021

- Got placed on VC's List for **6** semesters as recognition of achieving a GPA of 3.90-4.00 on those particular semesters.
- Got placed on Dean's List for **5** semesters as recognition of achieving a GPA of 3.70-3.89 on those particular semesters.

**Merit Based Scholarship, Brac University** January 2017 - January 2021

- **70%** waiver on Tuition Fees in every semester.

## PARTICIPATION

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**Grand Finalist of 'Champions of Earth : Season I', North South University** January 2015  
**Top 2.7%**

- Participated in an Environmental based Idea Generation Competition. Around 296 teams participated in first round and 8 teams made it to Grand Finale. Organized by [Earth Club of North South University](#).

## TALK & PRESENTATION

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**Short Introduction to Neural Networks and Deep Learning** November 2019

Venue : Department of CSE, Brac University

## RELEVANT COURSEWORK

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- Machine Learning • Artificial Intelligence • Pattern Recognition • Linear Algebra
- Elements of Statistics and Probability • Modern Probability Theory and Stochastic Processes
- Data Structures • Algorithms • Computer Graphics • Operating Systems • Compiler Design
- Numerical Methods • Database Systems • Software Engineering • System Analysis and Design

## ACADEMIC PROJECT

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- [Automation on Agriculture Field by Creating Mesh Network using esp8086 \(Microprocessors\)](#)
- [Employee Management and Performance Tracker System \(Database Systems\)](#)
- [Automated Restaurant Management System \(Software Engineering & System Analysis And Design\)](#)
- [Maze Solver and Android based Bluetooth Controlled Robot \(Digital System Design\)](#)

## REFERENCE

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Available on request.