

# 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, 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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**Programming Languages**

Java, Python, C/C++

**Other Languages**

MATLAB, Mathematica, L<sup>A</sup>T<sub>E</sub>X, x86 Assembly, Bash, Verilog

**Web Programming**

PHP, MySQL, HTML5

**Library**

Keras, Scikit-learn, Pandas, NumPy, Matplotlib, JOGL

**Software & Tool**

Git, Altera Quartus, Microwind, PSpice, emu8086

## HONORS & AWARDS

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

March 2018

- 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** **Top 2.7%**

January 2015

- 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 • Modern Probability Theory and Stochastic Processes

## ACADEMIC PROJECT

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- Luggage Security Alarm System (Digital Logic Design)
- [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 upon request.