

# SHOAIB AHMED DIPU

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## EDUCATION

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**Bachelor of Science in Computer Science and Engineering** January 2017 - January 2021  
Brac University, Mohakhali, Dhaka, Bangladesh  
**CGPA : 3.91 / 4.00 [Highest Distinction]**

## RESEARCH

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**Undergraduate Thesis**  
**An Active-Learning based Training-Schedule for Biomedical Image Segmentation on Deep Neural Networks** *January 2021*

· Supervisors : Mahbubul Alam Majumdar, Sowmitra Das, Shahnewaz Ahmed

**Journal Publication**  
**R. Azim, S. Wang, S. A. Dipu, "CDSImpute: An Ensemble Similarity Imputation method for single-cell RNA sequence dropouts", Computers in Biology and Medicine, Volume 146, July 2022, 105658 [IF : 4.589]** *2022*

## APPOINTMENT

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**Lecturer** June 2022 - Present  
**Department of Computer Science and Engineering, Brac University**

· Courses Currently Teaching : Programming Language II (Object Oriented Programming), Algorithms

**Lecturer** May 2021 - May 2022  
**Department of Computer Science and Engineering, Northern University Bangladesh**

· Courses Taught and Currently Teaching : Object Oriented Programming, Theory of Computation, Compiler Design, Introduction to Computer, Web Programming, Database Programming  
· Responsibilities : • Conducting Theory & Lab Classes (Course Load : 15.0-18.0 Credits). • Grading Scripts, Setting Up Questions & Invigilating for Exams. • Supervising Thesis / Projects of Undergraduate Students. • Designing & Coordinating Outcome Based Education (OBE) Curriculum • Conducting Administrative Tasks.

**Student Tutor (Undergraduate Teaching Assistant)** September 2019 - December 2020  
**Department of Computer Science and Engineering, Brac University**

· Courses Taught : CSE110 : Programming Language I, CSE111 : Programming Language II  
· Responsibilities : • Attended Lab Classes & assisted the Faculty Members. • Graded Quiz & Assignment scripts. • Provided 15 Hours / Week as Consultation Hours & selected Learning Materials to Facilitate Tutoring & Helped Students to develop Good Study Skills and Habits.

**Student Tutor (Undergraduate Teaching Assistant)** July 2020 - September 2020  
**Department of Mathematics and Natural Sciences, Brac University**

· 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**.

**Student Mentor of First Year Advising Team (FYAT)**  
**Office of Academic Advising, Brac University**

January 2019 - December 2019

- 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++, R
<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

## HONOR & AWARD

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

- Got placed on Vice Chancellor'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.

**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).

**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 Computer Science and Engineering, Brac University

## 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)

## **SERVICE**

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### **Organizing & Hosting Webinars**

Organize and Host Webinars regularly where guests both from Academia and Industry are invited to share their journey and experience with the students of the School of Science and Engineering, Northern University Bangladesh.

## **REFERENCE**

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Available on request.