Tarunnyamoye Kundu

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✉ **Email address:** tarunnyamoye1917@gmail.com

💬 **GitHub:** https://github.com/tarunnya17

in **LinkedIn:** tarunnyamoye

📍 **Home:** 11/8 Free School Street, Kalabagan Thana, Kawran Bazar, 1205 Dhaka (Bangladesh)

WORK EXPERIENCE

🏛 *Sonargaon University* – Dhaka, Bangladesh

Address: 147/I, Green Road, Panthapath, Tejgaon, Dhaka, 1215 Dhaka (Bangladesh) | **Website:** https://su.edu.bd/
Link https://su.edu.bd/faculty_members/teachers_details/465

Lecturer, Department of CSE

[02/05/2025 – Current]

I teach core courses including AI, OOP (Java & C++), Numerical Methods, Computer Architecture, and Information System Analysis and Design, Technical Writing and Seminar. I guide collaborative lab sessions for related theories and handle academic responsibilities such as attending meetings, curriculum design, invigilation, evaluation, and research supervision.

EDUCATION AND TRAINING

Bachelor of Science in Computer Science and Engineering

Khulna University [01/01/2019 – 02/02/2025]

Address: Sher-E-Bangla Rd, Khulna, 9208 Khulna (Bangladesh) | **Website:** https://ku.ac.bd/ | **Final grade:** 3.91 on the scale of 4.00 | **Number of credits:** 160.25 | **Thesis:** Optimizing Smart City Functions through Federated Learning: Implementation and Framework Development

LANGUAGE SKILLS

Mother tongue(s): Bengali

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

AI & ML

Scikit-Learn / Matplotlib / Google Colab / Keras / Numpy / TensorFlow / Flower FL / OpenCV / Pandas

Languages & Framework

CSS / C / HTML / Python / Java / React / JavaScript / C++

Software

LaTeX / PyCharm / Microsoft 365 / VS Code / Git / Mendeley

Visualization

Adobe photoshop / Adobe Illustrator / Lucidchart

Soft Skill

Public Speaking / Leadership / Team Work / Polyglot

PUBLICATIONS

Optimizing Smart City Functions through Federated Learning: Implementation and Framework Development
Undergrad final year thesis submitted to Khulna University.

By Tarunnyamoye Kundu, Rahat Morshed Nabil, Dr. SK Alamgir Hossain

Enhanced YOLOv9-Based Endangered Tiger Detection Framework for Wildlife Surveillance

Authors: Rahat Morshed Nabil; Tarunnyamoye Kundu | **Journal Name**: SPICSCON 2024 | **Publisher**: IEEE

Enhancing Healthcare with Desktop Companion Bot: A Novel Computer Vision Approach

Authors: Tarunnyamoye Kundu, Rahat Morshed Nabil | **Journal Name**: iCACCESS 2024 | **Publisher**: IEEE

Real-Time Three-Wheeler Traffic Detection on Expressways Using Yolo Model

Authors: Rahat Morshed Nabil , Tarunnyamoye Kundu and Uday Karmoker | **Journal Name**: ICCESD 2024 | **Publisher**: KUET

Advancing Sustainability: Introducing Reverse Vending Machines to University Campuses

Authors: Uday Karmoker , Tarunnyamoye Kundu | **Journal Name**: ICCESD 2024 | **Publisher**: KUET

PROJECTS

[07/2023 – 11/2023]
Eventor.com - An Event Management Website It is an event management and ticketing platform that lets users create, host, and book events across various categories offering seamless experience for organizers and attendees. It includes features like payment, integrated search etc. Course: Web Programming Project (CSE 3200). Technology: JavaScript, HTML, CSS, Node.js EJS, TailwindCSS, Figma, SSLCOMMERZ, Cloudinary, Firebase, and FireAuth.

Link: https://github.com/tarunnya17/Eventor-Web-Project

[10/2023 – 10/2023]
Desktop Companion Bot: Baymin-1.0 Baymin-1.0 is an entertaining and interactive desktop companion bot that promotes healthy screen habits, provides a friendly reminder (implementing Pomodoro) by detecting presence, distance from the monitor using **Computer Vision**. Course : Microprocessor & Microcontroller Laboratory (CSE 3112). Technology: Raspberry Pi, OpenCV, MediaPipe, Linux.

Links: https://www.youtube.com/watch?v=zCMlpaTLjPc | https://github.com/tarunnya17/Desktop-Companion-Bot

[03/2023 – 05/2023]
DBMS Project on Bishwo Shahitto Kendro Mobile Library A Java-based Library Management System for the Bishwo Shahitto Kendro Mobile Library, enabling book management, member registration, borrowing and returning, and report generation digitally and efficiently. Course: Database System Project (CSE 3102). Technology: Java, MySQL, JFrame.

Link: https://github.com/tarunnya17/DBMS_Project

[04/2023 – 04/2023]
Math Equation Plotter for Desktops This plotter is a lightweight OpenGL-based tool that plots mathematical functions in real time, supporting linear, trigonometric, logarithmic, and exponential equations with interactive zoom, pan, and adjustable parameters. Course: Software Development Project (CSE 3106). Technology: C++, OpenGL, Qt Framework.

Links: https://github.com/tarunnya17/Math_Plotter | https://www.youtube.com/watch?v=8UaCjWoSqvo

EVENT AND ACHIEVEMENTS

[09/11/2024 – 09/11/2024]
Speaker - TEDx Khulna University

In my **TEDx talk**, I advocated for **women in STEM**, highlighting their historical struggles, remarkable contributions, and the steps needed to empower and inspire young girls to pursue careers in science and technology.

Link: https://drive.google.com/file/d/1U0jiQJkRAFb4XCqhQQmit_t4u4RVakjN/view?usp=sharing

[11/2023 – 03/2024]
Top Performer - Shoktikonna Leadership Cohort 2023

Completed a **four-month** transformative leadership and personal development program.

- Graduated and won the **top performer** and **best assignment award** for continuous excellence.
- Attended 15+ interactive online sessions and participated in 10+ curriculum-based activities focused on empowerment and professional growth.
- Completed certified courses from **OLC/World Bank** (Foundations of Energy, Gender Equality and Energy, Power System Planning, Transmission Planning), **edX** (Unconscious Bias), and **Coursera** (Leading Teams, Building Effective Team Culture, Introduction to Public Speaking).

Link: https://www.shoktikonna.org/

[20/01/2024 – 20/01/2024]
Finalist - HULT Prize at Khulna University

Advanced through each stage to reach the finals with our innovative idea and business model.

Link: https://drive.google.com/file/d/1K5JPy6gbvPasIxtTT2fu649ZR1hHzBe3/view

[20/10/2023 – 20/10/2023]
Smart Rajshahi Innovation Challenge

Champion of the competition hosted by Rajshahi City Corporation and Startup Rajshahi. Designed an IoT-based Reverse Vending Machine for solid waste management.

Link: https://www.ruet.ac.bd/achivement/champion-of-the-smart-rajshahi-innovation-challenge-hosted-by-rajshahi-city-corporation-and-startup-rajshahi

[25/02/2023 – 25/02/2023]
6th National Girls Programming Contest 2023

Placed 57th nationally among over 150 programming teams on the onsite contest.

Link: https://drive.google.com/file/d/1edosUa9VXaBKUhkMEDG5KfkLAWdH0rTC/view

VOLUNTEERING

[07/2022 – 02/2025] Remote (Bangladesh)
Creative Executive at Reflective Teens- RT
Creative ideation, graphic content designing, and promoting impactful social duties towards teenagers.

Link: https://drive.google.com/file/d/1gvECmzoP6myQmtBz-rj4MqeHErXuJXkK/view

[04/2021 – 09/2022] Khulna, Bangladesh
General Member at Rotaract Club of Khulna University
Actively contributed to community service and hosted multiple national and international events as a dedicated general member of the Rotaract Club.

RECOMMENDATIONS

Name: Dr. SK Alamgir Hossain | Thesis Supervisor
Professor, Computer Science & Engineering Discipline, Khulna University
Email: alamgir@cseku.ac.bd | **Phone number:** (+880) 1711144146

Link: https://ku.ac.bd/discipline/cse/faculty/alamgir

Name: Prof. Bulbul Ahmed | Employer
Professor, Pro-Vice Chancellor (Acting) & Head of the Department
Department of Computer Science nd Engineering, Sonargaon University
Email: bulbul_cse@su.edu.bd | **Phone number:** (+880) 01955529841

Name: Dr. Manishankar Mondal | Teacher
Professor, Computer Science & Engineering Discipline, Khulna University
Email: mshankar@cse.ku.ac.bd | **Phone number:** (+880) 1700951594

Link: https://ku.ac.bd/discipline/cse/faculty/mshankar