

Palash Roy

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Education

Department of Computer Science and Engineering, University of Dhaka

Dhaka, Bangladesh

MASTER OF SCIENCE (M.S.), CGPA: 3.98/4.00

2020 - 2022

Department of Computer Science and Engineering, University of Dhaka

Dhaka, Bangladesh

BACHELOR OF SCIENCE (B.Sc.), CGPA: 3.85/4.00

2016 - 2019

Rajuk Uttara Model College

Uttara, Dhaka, Bangladesh

HIGHER SECONDARY CERTIFICATE, GPA: 5.00/5.00

2015

Rangamati Government High School

Rangamati, Bangladesh

SECONDARY SCHOOL CERTIFICATE, GPA: 5.00/5.00

2013

Teaching Experience

Green University of Bangladesh

Dhaka, Bangladesh

LECTURER, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

October 2020 - PRESENT

Publication

Journal Paper

- Anika Tahsin, **Palash Roy**, Md. Abdur Razzaque, MD. MAMUN-OR-RASHID, MOHAMMAD SIRAJ, SALMAN A. ALQAHTANI, MD. RAFIUL HASSAN, MOHAMMAD MEHEDI HASSAN, **Energy Cooperation Among Sustainable base Stations in Multi-Operator Cellular Networks**, *IEEE Access*, Volume: 11, pp. 19405-19417, 2023 (IF: 3.476).
- Mohammad Shahjalal, Nusrat Farhana, **Palash Roy**, Md. Abdur Razzaque, Kuljeet Kaur, Mohammad Mehedi Hassan, **A Binary Gray Wolf Optimization algorithm for deployment of Virtual Network Functions in 5G hybrid cloud**, *Computer Communications*, vol. 193, pp. 63-74, (IF: 5.047) doi: <https://doi.org/10.1016/j.comcom.2022.06.041>.
- Md. Rajibul Palas, Md. Rakibul Islam, **Palash Roy**, Md. Abdur Razzaque, Ahmad Alsanad, Salman AlQahtani, Mohammad Mehedi Hassan, **Multi-criteria handover mobility management in 5G cellular network**, *Computer Communications*, vol. 174, pp. 81 – 91, (IF: 5.047) doi: <https://doi.org/10.1016/j.comcom.2021.04.020>.
- Palash Roy**, Sujan Sarker, Md. Abdur Razzaque, Md. Mamun-or-Rashid, Mohammad Mehedi Hassan, Giancarlo Fortino, **Distributed Task Allocation in Mobile Device Cloud Exploiting Federated Learning and Subjective Logic**, *Journal of System Architecture* (2020) (IF: 5.836), <https://doi.org/10.1016/j.sysarc.2020.101972>
- Palash Roy**, Sujan Sarker, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Salman AlQahtani, Gianluca Aloï, Giancarlo Fortino, **AI-enabled Mobile Multimedia Service Instance Placement Scheme in Mobile Edge Computing**, *Computer Networks*, vol. 182, (IF: 5.493) doi: <https://doi.org/10.1016/j.comnet.2020.107573>.
- Palash Roy**, Anika Tahsin, Sujan Sarker, Tamal Adhikary, Md. Abdur Razzaque, Mohammad Mehedi Hassan, **User mobility and Quality-of-Experience aware placement of Virtual Network Functions in 5G**, *Computer Communications*, vol. 150, pp. 367 – 377, (IF: 5.047) doi: <https://doi.org/10.1016/j.comcom.2019.12.005>.

Conference Paper

- Sudip Chandra Ghoshal, Md Maruf Hossain, Bishozit Chandra Das, **Palash Roy**, Md. Abdur Razzaque, **Trade-off Between Latency and Energy for Offloading Tasks in Maritime Internet of Things**, 2022 4th International Conference on Sustainable Technologies for Industry 4.0 (STI), 17-18 Dec, 2022, Dhaka, Bangladesh.
- Md. Daiyan Uddin Mozumder, Rijaj Hosen, Md. Mamun Hossain, Md. Ahsan Habib, **Palash Roy**, Md. Abdur Razzaque, **Multiple Circular Ring-canalns on the Starfish Routing Backbone in Wireless Sensor Networks**, 2022 4th International Conference on Sustainable Technologies for Industry 4.0 (STI), 17-18 Dec, 2022, Dhaka, Bangladesh.
- Sabikun Nahar Tanha, Sowpna Akter Mim, **Palash Roy**, Md. Abdur Razzaque, **Prediction of Energy Harvesting in Solar Powered Small Cell Networks**, 2021 3rd International Conference on Sustainable Technologies for Industry 4.0 (STI), 18-19 Dec, 2021, Dhaka, Bangladesh.
- Rushmita H. Chaity, **Palash Roy**, Md. Abdur Razzaque, M. Sadiquzzaman, **Enhancing Quality of Experience of 5G Users Exploiting Deep Q-Learning**, 2021 3rd International Conference on Sustainable Technologies for Industry 4.0 (STI), 18-19 Dec, 2021, Dhaka, Bangladesh. **[Best Paper Award]**
- M. Shahjalal, N. Farhana, **Palash Roy**, Md. Abdur Razzaque, **QoE Aware Optimal Deployment of Virtual Network Functions in 5G Hybrid Cloud**, 2021 3rd International Conference on Sustainable Technologies for Industry 4.0 (STI), 18-19 Dec, 2021, Dhaka, Bangladesh.
- S.M. Tanvir Rahman, A. K. Sinthia, S. Nabila Akter, **Palash Roy**, Md. Abdur Razzaque, **Reputation Aware Fair Worker Selection in Collaborative Software Crowdsourcing**, 2021 3rd International Conference on Sustainable Technologies for Industry 4.0 (STI), 18-19 Dec, 2021, Dhaka, Bangladesh.
- Amena Zahan Prithibi, Syeda Kanij Faria, **Palash Roy**, Md. Abdur Razzaque, **Network Lifetime Aware Routing Algorithm for Energy Harvesting Wireless Sensor Networks**, 2020 2nd International Conference on Sustainable Technologies for Industry 4.0 (STI), 19-20 Dec 2020, Dhaka, Bangladesh.
- Mozdaher Abdul Quader, Montaser Abdul Quader, **Palash Roy**, Md. Abdur Razzaque, **A Hybrid Approach for Routing Path Computation in Software Defined Ultra Dense Network**, 2020 2nd International Conference on Sustainable Technologies for Industry 4.0 (STI), 19-20 Dec 2020, Dhaka, Bangladesh.

Projects

EasyML ([Github Link](#)) | ([Demo Video](#))

[HTML](#), [JavaScript](#), [Python-Flask](#),
[Firebase](#)

SOFTWARE ENGINEERING LAB PROJECT

2018

EasyML is a web-based **machine learning tutorial** project. By this platform, users can pre-process their data and find tutorial of different ML algorithms like PCA Analysis, Dimension Reduction 2D and 3D, Logistic Regression Classifier, K Neighbors Classifier, Decision Tree Classifier, SVM Classifier and Random Forest Classifier. Furthermore, users also simulate these algorithms using arbitrary datasets.

Helping Hand

[HTML](#), [JavaScript](#), [Firebase](#)

INTERNET PROGRAMMING LAB PROJECT

2019

Helping Hand is a web based fund collection project by which users can able to prevent fraud donation collection using QR code.

Cardio ([Github Link](#))

[HTML](#), [JavaScript](#), [Firebase](#)

SOFTWARE DESIGN PATTERN LAB PROJECT

2018

Cardio is a web application that lets the doctors, patients, sellers and dealers make an account and organize their prescription or medicine stock. Doctors can give suggestions to the patients and write prescription. Patient can download this prescription and offer medicines by this prescription to the sellers.

ExploreBD ([Github Link](#)) | ([Demo Video](#))

[Java](#), [Firebase](#)

APPLICATION DEVELOPMENT LAB PROJECT

2017

Explore BD is an android mobile app by which users face less problems in the new tourist spot. Users share their experience of a tourist place like hotel information of that place, total expenditure of that tour and users can create an event when they want to make a tour.

29 Card ([Github Link](#))

[Java](#)

OBJECT ORIENTED PROGRAMMING LAB PROJECT

2017

This game is developed by JAVA socket programming. In this game we have used JAVA socket programming by which four players can attend in this game at the same time.

Pacman Reborn ([Demo Video](#))

[C++](#)

STRUCTURED PROGRAMMING LAB PROJECT

2016

A desktop game developed by C++ and using SFML library. The goal of this game is to eat all foods and avoid getting eaten by ghosts. We have added some special features to make the game easier for player

Skills

Programming Languages	PYTHON, JAVA, C/C++
Machine Learning Libraries	NumPy, Matplotlib, keras, pandas, scikit-learn
Web Programming	HTML, JavaScript, PHP
Database	MySQL, Firebase database
Software Tools	LATEX, Android Studio, Netbeans, Microsoft Visio, Pycharm, Codeblocks, Cisco Packet Tracer

Achievement

December, **Outstanding Research Award**, Got **Outstanding Research Award** under the Faculty Research Publication
2022 Award 2022 from Center for Research Innovation and Transformation (CRIT), Green University of Bangladesh.

Fellowship Scholarship, Have been provided fellowship by **ICT Division, People's Republic of Bangladesh**
July, 2020 for conducting extensive research work which can keep significant contributions in the ICT sectors of
Bangladesh.

December, **Best Poster Paper Award**, Have been awarded the best poster paper award in **1st International**
2019 **Conference on Sustainable Technology for Industry(STI) 4.0, Dhaka, Bangladesh** for our research work
Mobility Aware Optimal Placement of Virtual Network Functions in 5G.

Extracurricular Activities

IEEE Student Branch, Green University of Bangladesh (IEEE SB GUB)

MENTOR

November, 2021 - Present

I am mentoring the students of IEEE SB GUB and IEEE CS SBC GUB for organizing the events in GUB by providing some guidelines.

IEEE Computer Society Student Branch Chapter, DU

CHAIR

October, 2020 - December, 2022

I have voluntarily organized several events in DU by this organization. I also organized several events in collaboration with IEEE Computer
Society, Bangladesh Chapter.

IEEE Computer Society Student Branch Chapter DU

GENERAL SECRETARY AND TREASURER

March, 2019-October, 2020

I voluntarily organized several events in DU by this organization to learn most updated things of our recent technologies those are not taught in
our academic curriculum. I also maintained financial budget of those events.

Shabab Murshid Development Foundation (SMDF)

TEACHER

July 2017-December 2019

I voluntarily taught Mathematics and English to underprivileged school children of classes 6-10 at **Shabab Murshid Development Foundation**
(SMDF).

Reference

Name Dr. Md Abdur Razzaque
Designation Professor
Institution Department of Computer Science and Engineering, University of Dhaka
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Mobile No 01841-066390

Name Dr. Md Mamun Or Rashid
Designation Professor
Institution Department of Computer Science and Engineering, University of Dhaka
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