



Md. Tariqul Islam

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ABOUT MYSELF

Highly motivated software engineer with a passion for open-source development. I thrive in dynamic environments and excel at tackling new challenges. Adept at continuous learning, I actively seek opportunities to expand my skill set and explore the latest technologies, as evidenced by my published journal paper. My academic background is further strengthened by receiving Awards 5-times during my undergraduate studies, recognizing me as a meritorious student. Seeking an academic opportunity to delve deeper into software engineering and contribute my one year of industry experience.

PUBLICATIONS

[2024]

[Leveraging Deep Q-Learning to maximize consumer quality of experience in smart grid](#)

Reference: Energy, Volume 290, 130165, ISSN 0360-5442

The smart grid system has addressed the problems of traditional power grid by not only meeting energy demand in real-time but also limiting its wastage. The two key objectives of a smart grid system are to ensure a higher Quality of Experience (QoE) for consumers and to reduce consumer costs using dynamically varying pricing concepts. However, these two objective parameters oppose each other as maximizing the consumer QoE requires the availability of sufficient electric power at any given time, which in turn increases power purchase cost. In this paper, we introduce an efficient power management system architecture of a smart grid and develop an Optimal Energy Allocation and Prediction system based on Deep Q-Learning, namely OEAP-DQL, that brings a trade-off between the two. The developed OEAP-DQL system is a multi-objective linear programming (MOLP) problem that predicts consumer electricity demand by exploiting four different weighted and regressive moving average forecasting methods in the action space to accurately capture dynamically varying customer demand behaviors. Furthermore, iterative exploitation of multiple learning methods decreases forecasting error and intelligent stored power management helps the OEAP-DQL smart grid operator (SGO) to enhance its profit. The results of our simulation experiments show that the OEAP-DQL system outperforms the state-of-the-art works in terms of QoE and cost.

WORK EXPERIENCE

Apex Data Management & IT Ltd. <https://www.apexdmit.com>

City: Dhaka | **Country:** Bangladesh | **Email:** career@apexdmit.com

[02/06/2025 - Current]

Software Engineer

- Developing a SaaS application for the property preservation business, focusing on scalability and reliability.
- Developing and maintaining the organization's event management application.
- Managing application updates and releases, including publishing to the Apple App

Store and Google Play Store.

- Collaborating with stakeholders and technical teams to implement new features and improvements.
- Enhancing skills in SaaS architecture, mobile app lifecycle management, and production deployment.

6amTech <https://6amtech.com>

City: Dhaka | **Country:** Bangladesh | **Email:** support@6amtech.com

[10/11/2023 - 20/11/2024] **Junior Software Engineer**

- Developed and maintained e-commerce, ride-sharing, and food ordering applications.
- Implemented features based on client requirements and business needs.
- Provided client support for software customization plans, including troubleshooting and feature adjustments.
- Collaborated with cross-functional teams to ensure timely delivery and quality assurance.
- Strengthened skills in full-cycle software development, client communication, and problem-solving.

Get-Aid Ltd. <https://get-aid.ltd>

City: Dhaka | **Country:** Bangladesh | **Email:** info@your-campus.com

[10/07/2023 - 09/11/2023] **Flutter Developer**

- Developed the YOUR Campus mobile application using Flutter.
- Built and maintained an Employee Attendance App with a focus on usability and performance.
- Collaborated closely with the tech team to design, implement, and improve application features.
- Gained hands-on experience in Flutter development, team-based workflows, and mobile app deployment.

EDUCATION & TRAINING

[30/11/2018 - 30/11/2021] **Bachelor of Science in Computer Science and Engineering**

Green University of Bangladesh <https://green.edu.bd>

Address: Purbachal American City, Kanchan, Rupganj, Narayanganj, Dhaka (Bangladesh)

| **Field(s) of study:** Computer Science and Engineering | **Final grade:** 3.58/4.00 |

Number of credits: 144 | **Thesis:** Leveraging Deep Q-Learning to maximize consumer quality of experience in smart grid

Link: <https://doi.org/10.1016/j.energy.2023.130165>

[2017] **Higher Secondary Certificate**

B A F Shaheen School & College Paharkanchanpur <https://bafspkp.edu.bd>

Address: BAF Base Paharkanchanpur, Sakhipur, Tangail 1950, Dhaka (Bangladesh) |

Field(s) of study: Science | **Final grade:** 4.67/5.00

[2015] **Secondary School Certificate**

B A F Shaheen High School <https://bafspkp.edu.bd>

Address: BAF Base Paharkanchanpur, Sakhipur, Tangail 1950, Dhaka, (Bangladesh) |

Field(s) of study: Science | **Final grade:** 4.78/5.00

Flutter BLoC State Management & Firebase [2023] From Scratch

Udemy

<https://www.udemy.com/certificate/UC-b293787b-ff4e-4d44-9ad1-91bdc66a46ba/>

Learn Flutter GetX Course 2023

Udemy

<https://www.udemy.com/certificate/UC-6da5bace-87c4-4a43-a2ee-8a7c9a6e0b8d/>

HONOURS AND AWARDS

- [05/05/2022] **Dean's Award, Fall Semester 2021** Awarding institution: Green University of Bangladesh
- [11/11/2021] **Vice Chancellor's Award, Fall Semester 2020** Awarding institution: Green University of Bangladesh
- [08/05/2021] **Vice Chancellor's Award, Summer Semester 2020** Awarding institution: Green University of Bangladesh
- [06/01/2021] **Vice Chancellor's Award, Spring Semester 2020** Awarding institution: Green University of Bangladesh
- [30/10/2019] **Book Reading Programme Award 2019** Awarding institution: British Council

SKILLS

Good programming skills (C, Python, Java, C++) | Mobile Development: Flutter & Dart | Experience in MATLAB, python, and R | Advance knowledge in Machine Learning and Deep learning | • Application programming and Artificial Intelligence (Machine Learning/Neural Network)

LANGUAGE SKILLS

Mother tongue(s): Bengali

Other language(s):

English

LISTENING: B2 READING: B2 WRITING: B2

SPOKEN PRODUCTION: B2 SPOKEN INTERACTION: B2

VOLUNTEERING

- [17/12/2022 - 18/12/2022] **2022 4th International Conference on Sustainable Technologies for Industry 4.0 (STI)** Green University of Bangladesh

MANAGEMENT AND LEADERSHIP SKILLS

Information Secretary, IEEE Computer Society Student Branch Chapter

02/2022 – 04/2023

Green University of Bangladesh

Student Mentor, Department of CSE

02/2022 – 09/2022

Green University of Bangladesh