

MUHAMMAD RIFAT ISLAM

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Mirpur, Dhaka - 1216, Bangladesh

OBJECTIVE

To secure a position where I can blend academic instruction and practical engineering experience, bridging the gap between theory and application in fields such as artificial intelligence, IoT, and software systems. I strive to foster innovation, critical thinking, and real-world problem-solving among students.




EXPERIENCE

- **AIDE Private Limited** 
App Developer- part time Aug 2025 - Present
Dhaka, Bangladesh
 - Building scalable apps using Flutter.
 - Gained team lead experience while coordinating a small agile team.
- **Taxsense IT Limited** 
Junior Software Developer Jan 2025 - July 2025
Dhaka, Bangladesh
 - Built scalable frontend in ReactJS, NextJS, and TailwindCSS for ERP and e-commerce platforms.
 - Gained team lead experience while coordinating a small agile team.
 - Achieved knowledge about the Agile Software Development process.
- **MADE EASY Limited** 
Instructor & Executive Director April 2024 - Present
Hybrid
 - Instructed various academic & Skill courses classes
 - Leading full-stack development using Next.js, React, and Django
 - Driving innovation for edtech solutions.
 - Managing academic ops and the dev team simultaneously.

EDUCATION

- **Military Institute of Science & Technology** Jan 2020 - April 2024
Mirpur, Dhaka
BSc. in Computer Science & Engineering
 - CGPA: 3.5/4.00
- **New Govt. Degree College** Jun 2019
Rajshahi, Bangladesh
Higher Secondary School Certificate
 - GPA: 5.00
- **Seroil Govt. High School** February 2017
Rajshahi, Bangladesh
Secondary School Certificate
 - GPA: 5.00

PROJECTS

- **Smart Supply Network** Mar 2025 - Jun 2025

Tools: React, Django, Tailwind CSS, B2B Supply network
 - Design & Develop a full-stack reverse B2B e-commerce platform from scratch.
 - Made the whole architecture.
 - Led path-planning module with a focus on logistical optimization.
- **Diabetes Patient Pre-screening Chatbot** May 2023 - April 2024

Tools: Raspberry Pi, Digital Screen, Python, Machine Learning, Tensorflow
 - Design & Develop a chatbot using deep learning (ANN) for diabetes patient pre-screening.
 - Dataset created by Doctor & Diabetes Patient Conversation
 - Body Measurements by sensors given to Raspberry Pi
 - Raspberry-Pi as the controlling unit & Digital Screen for showing values
- **Made Easy Website & Updates** April 2025 - present

Tools: NextJS, Django, Hostinger, WordPress
 - Launched the official MADE EASY EdTech platform offering academic and skills-based courses.
 - Initial version built using WordPress on Hostinger.
 - Upgraded MADE EASY into a modern full-stack web app.
 - Migrated to Next.js frontend and Django (upgraded LMS) backend for performance.

• Health AI: A Personal Healthcare Companion

Feb 2023 - Jan 2024

Tools: Flutter, Azure Chatbot Service, Infermedica Dataset, Firebase, ESP32, and Sensors.



- A personal healthcare companion app featuring a dedicated IoT hardware device. Key features include an AI-based chatbot for symptom analysis and disease detection.
- Affiliated with Microsoft for Startups Founders Hub, receiving cloud credits and expert mentorship..
- Body real-time information gathered
- Integrated hardware system with the software.

• YouTube News Video Textual Summarization

Aug 2023 - Jan 2024

Tools: Google T5, SpaCy, Youtube Data API, BERT, ROUGE Score, Python 3.7+



- Google T5: Transformer model for abstractive text summarization.
- SpaCy: NLP library used for extractive summarization and preprocessing.
- Used ROUGE scores to evaluate and compare the performance of the two summarization methods:
(T5): Generates human-like, rephrased summaries.
(SpaCy): Extracts key sentences directly from the text.

PUBLICATIONS TOTAL= 4: 3 PUBLISHED & 1 UP-COMING

C=CONFERENCE, J=JOURNAL

- [C.1] Jamal Uddin Tanvin, Nurshat Fateh Ali, **Muhammad Rifat Islam**, et al., "Azure health bot based support system for personal healthcare and monitoring," in Proceedings of the 3rd International Conference on Computing Advancements, ser. ICCA'24, New York, NY, USA: Association for Computing Machinery, 2025, pp. 370–375, ISBN: 9798400713828. DOI: [10.1145/3723178.3723227](https://doi.org/10.1145/3723178.3723227).
- [C.2] Sachitra Halder, M. Akhtaruzzaman, Jamal Uddin Tanvin, **Muhammad Rifat Islam**, and Md Tausiful Haque, "An AI-NLP-based interactive chatbot model for patient prescreening at doctor's consultancy," in 2024 International Conference on Innovations in Science, Engineering and Technology (ICISSET), IEEE, IIUC, Kumira, Chattogram, Bangladesh, Oct. 2024, pp. 1–6. DOI: [10.1109/ICISSET62123.2024.10939233](https://doi.org/10.1109/ICISSET62123.2024.10939233).
- [C.3] Nurshat Fateh Ali, Jamal Uddin Tanvin, **Muhammad Rifat Islam**, Jubair Ahmed, and M. Akhtaruzzaman, "Rouge score analysis and performance evaluation between Google T5 and SpaCy for YouTube news video summarization," in 2023 26th International Conference on Computer and Information Technology (ICCIT), IEEE, Cox's Bazar, Bangladesh, Dec. 2023, pp. 1–6. DOI: <https://doi.org/10.1109/ICCIT60459.2023.10441408>.

SKILLS

- **Programming Languages:** C++, C, JavaScript, TypeScript, PHP, Python, Java
- **Web Technologies:** Node.js, React, Vue.js, Next.js, HTML5, CSS3, Bootstrap, Tailwind CSS
- **Database Systems:** MySQL, PostgreSQL, Oracle, Firebase
- **Data Science & Machine Learning:** Keras/TensorFlow, PyTorch, ONNX, HuggingFace (BERT)
- **DevOps & Version Control:** Git, GitHub, GitHub Actions, Docker
- **Specialized Area:** Microservices, REST & WebSocket APIs, Prompt Engineering
- **Mathematical & Statistical Tools:** Matlab
- **Other Tools & Technologies:** FastAPI, Firebase
- **Research Skills:** NLP (language modeling), Image Classification, Semantic Segmentation, Prompt Engineering

ACHIEVEMENTS

• Microsoft for Startups Founders Hub

2023

Microsoft Corporation



- Selected for Microsoft's startup acceleration program.
- Received \$1,000 in Azure credits and \$2,500 in OpenAI credits, along with technical and business support.
- Later awarded an additional \$5,000 in Azure credits and access to expert mentorship from Azure professionals.

• Best Paper Award – ICISSET 2024

March 2024

International Conference on Innovations in Science, Engineering and Technology



- Honored in the Data Science and Big Data Analytics Track at ICISSET 2024.
- Recognized for innovative contributions and impactful research in data science.

• 5th Position – Independence Day Programming Contest (IDPC)

March 2022

MIST Computer Club

- Achieved 5th place among 60 teams in the prestigious IDPC organized by the MIST Computer Club.
- Demonstrated strong problem-solving and teamwork under competitive pressure.

• Participation in National and International Programming Contests

Throughout BSc (2020–2024)

IUPC, NCPC, ICPC Regionals (Bangladesh)

- Actively participated in all major national and international preliminary contests, including IUPC, NCPC, and ICPC.
- Gained valuable experience in algorithm design, real-time problem solving, and team collaboration.

LEADERSHIP EXPERIENCE

- **Executive Director, Event Management**

Mar 2023 – Mar 2024

MIST Computer Club



- Oversaw planning and execution of major intra-university tech events, including IDPC, Tech Day, and workshops.
- Coordinated with 10+ teams and managed 300+ participants to ensure smooth event flow.
- Introduced structured volunteer management and post-event reporting to improve event quality and feedback.

- **Class Representative**

3rd Year – 4th Year

Department of CSE, MIST

- Acted as liaison between faculty and students, representing the academic concerns and suggestions of 100+ peers.
- Helped organize academic seminars and internal contests to boost peer engagement and learning.

VOLUNTEER EXPERIENCE

- **Volunteer – IDPC 2023, NCPC 2020, FlagHunt 2023**

2020 – 2024

MIST Computer Club, MIST Cyber Security Club

REFERENCES

1. **Prof. Dr. Sharif Nurul Ahkam**

Chairman, TAXSENSE Ltd

Professor, Department of Accounting

North South University

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Relationship: Industry Reference

2. **Asst. Prof. Dr. Md. Akhteruzzaman**

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Relationship: Teacher/Academic Supervisor

3. **Md. Shadman Aadeeb**

Lecturer, Department of Computer Science and Engineering

United International University

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Relationship: Teacher