Md. Abu Sufyan

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OBJECTIVES

Driven by a passion for technology and innovation, I aim to apply my expertise in **Machine Learning, Deep Learning, and Computer Vision** within the field of **Computer Science & Engineering**. My goal is to contribute to impactful research, advanced software development, and community-oriented projects while continuously enhancing my technical and professional skills. I seek opportunities in collaborative environments that foster leadership, effective communication, and lifelong learning.

WORK EXPERIENCE

March 2024 – Present

Machine Learning & AI instructor · Artificial Intelligence Bangladesh

High Tech Park, Silicon Tower, Rajshahi, Bangladesh
aibd.ai

- Conducted hands-on training sessions on **Machine Learning, Deep Learning, Computer Vision and Data Science** for students and professionals.
- Designed and delivered course materials covering supervised/unsupervised learning, model evaluation, and deployment workflows.
- Mentored learners through practical projects, improving their problem-solving and coding skills in Python and ML frameworks.
- Collaborated with AI Bangladesh community initiatives to expand outreach and promote applied AI education in Bangladesh.

Jun 2025 – Present

Campus Representative · FutureNation Volunteer

Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh
futurenation.gov.bd

- Organized and facilitated FutureNation programs and workshops within the RUET campus.
- Led university-level initiatives to engage students in FutureNation's skill-building and youth empowerment projects.
- Collaborated with FutureNation teams and partner organizations to ensure impactful program execution.

Feb 2025 – Present

President · RUET IoT Club

Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh
ruetiotclub.org

- Organized workshops and events on IoT and smart technologies.
- Coordinated technical sessions focusing on innovation, automation, and advanced IoT applications.
- Collaborated with student bodies to enhance hands-on learning and technical collaboration.

Jul 2024 – Present

Research Assistant · Machine Learning Research Group

Department of Computer Science & Engineering, RUET, Rajshahi-6204, Bangladesh
Supervised by: Assistant Prof. SM Mehedi Hasan

- Engaged in machine learning research with a focus on sentiment analysis and predictive modeling.
- Co-authored papers accepted at ICCIT 2024 on social media bias and time-series forecasting.

Jul 2025 – Present	**Executive Member, Human Resource Management · Aachol Foundation**

Dhaka, Bangladesh
aacholfoundation.com
- Supported human resource activities, including volunteer onboarding and member coordination.
- Assisted in organizing awareness campaigns and mental health support initiatives.
- Collaborated with the HR team to enhance operational efficiency in community-driven projects.

August 2025 – Present	**Founding Member · RUET Computing Society**

Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh
ruetcs.org
- Played a key role in establishing the Computing Society at RUET.
- Organized coding competitions, seminars, and collaborative projects to promote computing knowledge.
- Worked with fellow founding members to draft the society's structure and roadmap.

Sep 2024 – Present	**Human Resource Officer · Volunteer for Bangladesh (VBD)**

Rajshahi District, Bangladesh
vbd.com.bd
- Managed volunteer recruitment and training programs for social initiatives.
- Organized campaigns on public health and environmental awareness.
- Coordinated with NGOs and local authorities to implement SDG-aligned community projects.

EDUCATION

Mar 2021 – 2025	**Bachelor of Science in Computer Science & Engineering**

CGPA: 3.68 / 4.00
Department of Computer Science & Engineering
Rajshahi University of Engineering & Technology (RUET), Rajshahi-6204, Bangladesh

INDUSTRIAL ATTACHMENT

March 2025	**15-Day Industrial Attachment – Real-Time AI Project**

Developed a real-time traffic sign detection system using trained deep learning models and a web interface. Gained hands-on experience in a collaborative office setting with developers and data scientists.
- Built a web-based application integrating YOLOv8, MobileNet, and ResNet models for live video detection.
- Explored Generative AI for auto-annotation and dataset enhancement.
- Contributed to full-cycle development: model training, frontend/backend integration, and deployment.
- Participated in daily standups, sprint reviews, and presented project outcomes as a team.

SKILLS & INTERESTS

PROGRAMMING & WEB DEVELOPMENT	**Frontend:** HTML5, CSS3, TailwindCSS, JavaScript, React **Backend:** Node.js, Express.js, PHP (Laravel 11) **Database:** MySQL, MongoDB **Version Control:** Git, GitHub
HARDWARE DESIGN & VLSI	**VLSI:** Verilog, HDL **Architecture:** ISA Design, CPU Design
TOOLS & PLATFORMS	Visual Studio Code, Postman, Firebase Console, Git CLI, Figma (Basic)

RESEARCH INTERESTS	Machine Learning, Deep Learning, Computer Vision, Sentiment Analysis, Time-Series Forecasting, Predictive Modeling
LANGUAGES	Bangla – Native fluency English – Full professional proficiency (written and spoken)
INTERPERSONAL & SOFT SKILLS	Team Leadership, Technical Communication, Public Speaking, Project Planning, Event Management
PROFESSIONAL INTERESTS	Full-Stack Development, Mobile App Engineering, AI for Social Good, Tech-Driven Community Initiatives

CONFERENCE PAPERS

[1] *"A Cross-Analyzing Approach to Sentiment and Bias Detection in Social Media: Insights from Geopolitical Conflicts"*
Presented at **ICCiT 2024**, Cox's Bazar, Bangladesh

[2] *"Improving Monkeypox Outbreak Prediction Through Time-Series Forecasting with Machine Learning Models"*
Presented at **ICCiT 2024**, Cox's Bazar, Bangladesh

PROJECTS

2025 — **Traffic Sign Detection System**

- Real-time detection of traffic signs using YOLOv8, MobileNet, and ResNet.
- Deployed on a web interface with live video processing support.

2024 — **Sentiment Analysis and Bias Detection**

- Developed ML/DL models for detecting sentiment and geopolitical bias in social media text.
- Supported academic research published in ICCIT 2024.

2024 — **Time-Series Forecasting for Health Data**

- Built forecasting models to predict Monkeypox outbreak trends.
- Implemented LSTM, GRU, and ensemble ML models to improve predictive accuracy.

2024 — **Attendance Management App**

- Cross-platform mobile app built with Flutter and Dart.
- Integrated Firebase for authentication and real-time database.
- Applied Riverpod for efficient state management and clean UI design.

2023 – Ongoing — **Full-Stack Web Development Projects**

- Designed responsive frontends with React, TailwindCSS, and DaisyUI.
- Built backends with Node.js, Express.js, MySQL, and PHP (Laravel).

VOLUNTEERING

Jan 2021 – Present — **Manus Manusher Jonnya Foundation**
Campus Volunteer
Contributed to disaster relief, education, and youth empowerment.

June 2023 – Present — **Volunteer for Bangladesh (Jagoo Foundation)**
Committee Member
Organized public health, environmental campaigns, and youth development projects.

CERTIFICATIONS

December 14, 2024	**Certified Associate in Project Management (CAPM)® Certification Course** PMI (Project Management Institute) Completed a certification course on project management principles, methodologies, and best practices according to PMI standards.
2024	**App Development with Flutter** Ostad Successfully completed a hands-on course on Flutter app development, covering UI/UX design, state management, and backend integration.
2024	**Introduction to Machine Learning** Kaggle Completed an introductory course on machine learning, covering supervised and unsupervised learning techniques, algorithms, and model evaluation.
2024	**Basic Networking Exam** Cisco Networking Academy Successfully completed a fundamental networking exam covering networking concepts, protocols, and troubleshooting.
December 17, 2024	**Art of Problem Definition** Passport to Earning Bangladesh (Generation Unlimited) Focused on problem-solving techniques, critical thinking, and structuring problems effectively for optimal solutions.
May 21, 2024	**Workplace Communication Essentials** Passport to Earning Bangladesh (Generation Unlimited) Learned key skills in workplace communication, professional etiquette, and effective collaboration in business environments.
February 5, 2025	**The SDG Primer** UNDP Bangladesh Gained knowledge about the Sustainable Development Goals (SDGs), their implementation, and impact on global development.

REFERENCES

[1] Prof. Dr. Md. Ali Hossain
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Rahshahi University if Engineering & Technology, Rajshahi-6204, Bangladesh
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[2] Assist. Prof. Md. Azmain Yakin Srizon
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Mobile: +880 1790 187189, Email: azmainsrizon@cse.ruet.ac.bd

DECLARATION

I declare that all the information provided is accurate and authentic to the best of my knowledge.

Md. Abu Sufyan