

# Mohammad Sayem Chowdhury

Chattogram, Bangladesh

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## EDUCATION

**American International University-Bangladesh(AIUB)**

MSc, Computer Science, **CGPA: 3.85 / 4.00**

Dhaka, Bangladesh

Jan 2023 to Dec 2023

**American International University-Bangladesh(AIUB)**

BSc, Computer Science & Engineering, **CGPA: 3.77 / 4.00**

Dhaka, Bangladesh

May 2018 to April 2022

## SELECTED PUBLICATIONS

- ✓ Chowdhury, M. S., et al. (2024). **Leveraging Deep Neural Networks to Uncover Unprecedented Levels of Precision in the Diagnosis of Hair and Scalp Disorders.** *Skin Research and Technology*, Wiley. DOI: [10.1111/srt.13660](https://doi.org/10.1111/srt.13660) (Master's thesis)
- ✓ Chowdhury, M. S., et al. (2024). **Unveiling the Unique Dermatological Signatures of Human Pox Diseases through Deep Transfer Learning Model Based on DenseNet and Validation with Explainable AI.** In *Data-Driven Clinical Decision-Making Using Deep Learning in Imaging*, Springer. DOI: [10.1007/978-981-97-3966-0\\_7](https://doi.org/10.1007/978-981-97-3966-0_7)
- ✓ Jahan, N., Chowdhury, M. S., et al. (2024). **SafeguardNet: Enhancing Corporate Safety via Tailored Deep Transfer Learning for Threat Recognition.** *IEEE Access*. DOI: [10.1109/ACCESS.2024.10637407](https://doi.org/10.1109/ACCESS.2024.10637407)
- ✓ Sultan, T., Chowdhury, M. S., et al. (2025). **LeafDNet: Transforming Leaf Disease Diagnosis Through Deep Transfer Learning.** *Plant Direct*, Wiley. DOI: [10.1002/pld3.70047](https://doi.org/10.1002/pld3.70047)

Complete list: [Google Scholar](#)

## Research in Progress & Under Review

- Chowdhury, M. S., et al. **EtyDerm: A Deep Learning Framework for Etiology-Based Multiclass Skin Disease Classification Using Integrated Datasets** (Under Review).
- Chowdhury, M. S., et al. **FauxMasks: A Pseudo-Mask Framework for Skin Lesion Segmentation.** (In Preparation).
- Chowdhury, M. S., et al. **Bridging CNNs and Transformers for Explainable Multimodal Skin Disease Diagnosis** (In Preparation).

## Research Interests

- » Explainable Deep Learning and Interpretable AI in Medical and Safety-Critical Systems
- » Generative AI and Multimodal Representation Learning (Vision, Language, and Structured Data)
- » Cognitive Robotics and Human-Centered AI for Brain-Inspired Intelligence

## ACADEMIC EXPERIENCE

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### **Advanced Machine Intelligence Research Lab (AMIRL)**

Research Assistant

Dhaka, Bangladesh

Jan 2024 to Present

- Designed and implemented machine learning models and end-to-end data pipelines for diverse research applications.
- Conducted data preprocessing, model training, evaluation, and result interpretation to ensure robustness.
- Collaborated with team members, mentored juniors, and maintained reproducible, version-controlled codebases.

### **American International University-Bangladesh(AIUB)**

Intern Student

Dhaka, Bangladesh

Jan 2022 to Apr 2022

- Assisted in programming lab sessions, student debugging support, and grading scripts.
- Supported coordination and preparation of course materials for 100+ students.

## HONORS AND SERVICE

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★ **Magna Cum Laude** — Awarded for academic excellence in MSc Program.

★ **Website Coordinator**, IEEE CS BDC SPARK — Oversaw website design, content updates, and maintenance

★ **Webmaster**, IEEE AIUB Student Branch — Managed chapter's technical infrastructure and web operations

★ **Member**, IEEE & IEEE Computer Society (since 2019)

## CERTIFICATIONS

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★ Applied Data Science with Python – University of Michigan (Coursera)

★ Google and IBM Data Analytics Professional Certificate

Complete list: [Coursera Profile](#)

## SKILLS

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- **Programming Languages:** Python, R, C++, Java, SQL
- **Frameworks:** TensorFlow, PyTorch, Scikit-learn, OpenCV
- **Tools:** Git, LaTeX, Tableau, Google Data Studio
- **Web Development:** React, Django, Laravel, PHP, JavaScript

## REFERENCES

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**Dr. Muhammad Firoz Mridha**, Professor, Member [Research & Publication Steering Committee], Department of Computer Science, American International University-Bangladesh(AIUB); [firoz.mridha@aiub.edu](mailto:firoz.mridha@aiub.edu)

**Dr. Md. Asraf Ali**, Professor, Department of Computer Science, American International University-Bangladesh(AIUB); [asrafali@aiub.edu](mailto:asrafali@aiub.edu)