## Apurbo Biswas

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Dhaka, Bangladesh


## PROFILE

Undergraduate Computer Science student at American International University–Bangladesh specializing in Machine Learning, Deep Learning, and applied Artificial Intelligence. Author of three peer-reviewed research publications and an active reviewer for international journals including IEEE Access and PLOS ONE. Experienced in developing real-time AI systems across computer vision, predictive modeling, and intelligent applications. Aspiring to pursue an academic career and contribute to research in reliable and deployable AI systems.

## TECHNICAL SKILLS & STRENGTHS

- Machine Learning, Deep Learning , Artificial Intelligence
- Computer Vision & Natural Language Processing (NLP)
- Data Cleaning, Preprocessing & Feature Engineering
- **Programming:** Python, C++, Java, C#, SQL
- **Tools:** Jupyter Notebook, Google Colab, VS Code
- **Libraries:** OpenCV, MediaPipe, Scikit-learn, TensorFlow (basic), Prophet
- **Databases:** MySQL, PostgreSQL

## PUBLICATIONS

1. **An interpretable deep learning approach for breast cancer classification and tumor localization from histopathological images Elsevier (Q1)**
2. **Prediction and Candidate Prioritization for Kidney Transplant Allocation Using Machine Learning ICEFronT 2026**
3. **Industry 5.0-Driven Deep Learning Framework for Long-Term Global C02 Emission Forecasting** ECCT 2026, ACSR (Springer Nature) — 2026
4. **Few-Shot Multimodal Instruction Tuning for Vision-Language Models** ECCT 2026, Taylor & Francis
5. **Biomedical LLM Hallucination Detection via Classifier-Conditioned Factuality Classification** ECCT 2026, Taylor & Francis
6. **End-to-End Deep Learning Framework for Kidney MRI Segmentation and Explainable CKD Detection Using Transfer Learning** ECCT 2026, ACSR (Springer Nature)
7. **A Hybrid Deep Learning Framework for Real-Time Traffic Risk Prediction** IEEE QPAIN 2026 — Chittagong, Bangladesh

8. **Domain-Specific NLP for Personalized Radiation Treatment Pathways with LLM Fine-Tuning** IEEE WIECON-ECE 2025 — Cox's Bazar, Bangladesh
9. **Securing the Future: Enhancing Cybersecurity in Supply Chains Book Chapter**, IGI Global — 2025

## PROJECT EXPERIENCE

1. Real-Time Gesture & Color Detection System (2025)
2. VirtualMouse-AI (2025)
3. ASL Recognition Project (2025)
4. Sales Forecasting System (2025)
5. DhakaConnect Bus Route Finder (2024)
6. Car Rental Management System (2024)
7. The Epilogue of Education (OpenGL) (2024)

## EDUCATIONAL BACKGROUND

- **Bachelor of Science (BSc) in Computer Science and Engineering**
  American International University-Bangladesh, Dhaka | 2023 – Present
  CGPA: 3.87 / 4.00 (Current)
- **Higher Secondary Certificate (HSC)**
  Rajshahi Government City College, Rajshahi | 2020
  GPA: 5.00 / 5.00
- **Secondary School Certificate (SSC)**
  Rajshahi Collegiate School, Rajshahi | 2018
  GPA: 5.00 / 5.00

## REFERENCES

**1. Dr. Nazib Abdun Nasir**
**Designation:** Assistant Professor
**Institution:** American International University-Bangladesh.
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**2. Tofayet Sultan**
**Designation:** Lecturer
**Institution:** American International University-Bangladesh.
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**3. Md. Reazul Islam**
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