

Aniruddha Aranya A Dheu

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Sylhet, Bangladesh, 3100

PROFESSIONAL SUMMARY

Undergraduate Computer Science researcher and developer focused on AI/ML, NLP, and automated data pipelines. Experienced in developing full-stack web scraping architectures, local LLM integrations, and delivering foundational technical training to both secondary students and underserved communities.

EDUCATION

- **Leading University** Sylhet, Bangladesh
B.Sc. in Computer Science and Engineering *May 2025 – Present*
Current CGPA: 3.24/4.00
 - **Major Courses:** Structured Programming Language, Data Structure & Algorithms, Discrete Mathematics, Calculus, Linear Algebra & Complex Variable, Coordinate Geometry & Vector Analysis.
- **Govt. MC Academy** Sylhet, Bangladesh
Higher Secondary Certificate (HSC) in Science *Sept 2020 – Dec 2022*
GPA: 5.00/5.00

WORK EXPERIENCE

- **UK-Based Stealth Startup** Remote, UK
Lead Product Developer *Feb 2026 – Present*
 - Lead **end-to-end production workflows** for digital information products, from research through final QA, coordinating delivery against client timelines.
 - Author multi-module scripts and syllabi **benchmarked against UK industry standards**, ensuring each unit passes quality review before release.
 - Standardize modular asset templates and documentation pipelines used across the production team, keeping output **consistent across client deliverables**.
- **DeepNet Lab** Sylhet, Bangladesh
Undergraduate Research Assistant *Jul 2026 – Present*
 - Conduct applied research in **Machine Learning, NLP, and Large Language Models** under faculty mentorship, contributing to an active lab research agenda.
 - Design text preprocessing and data augmentation pipelines used to evaluate **transformer-based classification architectures** across multiple experiments.
 - Co-author academic manuscripts and empirical evaluations submitted to **peer-reviewed conference tracks**.
- **vyvyadmsnforum** Sylhet, Bangladesh
Community Lead *Jan 2022 – Jan 2025*
 - Built and led a Telegram-based platform that served **6,000+ university admission aspirants**, delivering mentorship, extensive materials, and study resources.

PUBLICATIONS & RESEARCH

- **Conference Paper: Impact of Data Augmentation Techniques on Bangla Cyberbullying Detection Using Transformer Models.** Aniruddha Aranya A Dheu, Sayed Al Mamun, Sourav Mohon Biswas. *Presented at the 3rd Student Research Conference (LURSSRC 2026), Machine Learning & AI Track, Aug 2026.*
 - Investigated the empirical impact of text data augmentation strategies on transformer-based architectures for cyberbullying detection in low-resource language settings (Bangla).
 - Evaluated and compared multiple transformer models across standard classification metrics, demonstrating that targeted semantic augmentation significantly mitigates class imbalance and enhances detection accuracy.

PROJECTS

- **deepcrawler.ai** GitHub
Python, Selenium, Streamlit, LangChain, Ollama
 - Built an intelligent **web crawler & parser** that orchestrates local LLMs to extract and summarize dynamic e-commerce reviews.
- **Reed Scrape** GitHub
Python, Pandas, Selenium, Jupyter Notebook
 - Executed a **large-scale data collection** project using web automation to build a structured dataset from a real-world platform.
- **aranyaadh3u.vercel.app** Live Site
TypeScript, CSS, JavaScript, Cursor, Vercel
 - Designed and built a minimalistic **portfolio site** showcasing projects, skills, and professional activities.

TECHNICAL STRENGTH

- **Programming Languages:** Python, C, C++, Go (Golang)
- **Databases:** PostgreSQL, MySQL
- **Libraries & Frameworks:** Pandas, NumPy, Selenium, Streamlit, Matplotlib, BeautifulSoup, Requests
- **Developer Tools:** Git, GitHub, Vercel, VS Code, Google Colab, Jupyter Notebook, **L^AT_EX**
- **Competitive Programming:** Solved **150+** problems across Codeforces and CodeChef

TEACHING & MENTORSHIP

- **Divisional Social Services Office, Sylhet** Sylhet, Bangladesh
Lead IT Trainer & Curriculum Designer *Jul 2026 – Aug 2026*
 - Designed and executed a 15-day digital literacy syllabus for 25 marginalized individuals under the Ministry of Social Welfare.
 - Modernized coursework by integrating applied AI productivity tools and core cybersecurity awareness alongside basic computing.
- **Academic Mentorship & Tutoring** Sylhet, Bangladesh
Private Instructor *2024 – Present*
 - Instructing 11th–12th grade students in ICT and English, covering curriculum fundamentals.
 - Tutoring 4th–10th grade students across Science, Mathematics, and English.

EXTRACURRICULAR ACTIVITIES

- Executive Member of Leading University Research Society (LURS).
- Member of IEEE Computer Society LU SB Chapter.
- Member of Leading University Computer Club (LUCC).
- Active participant of Leading University ACM Community.

CERTIFICATIONS

- **Artificial Intelligence & Cyber Security Fundamentals:** National Cyber Security Agency (NCSA), ICT Division; Score: 100/100 (Feb 2026).
- **Python Programming:** National Cyber Security Agency (NCSA), ICT Division; Score: 85/100 (Feb 2026).
- **CS50's Introduction to Programming with Python:** Harvard University.
- **Google AI Essentials:** Google.
- **DataCamp Certifications:** AI Agent Fundamentals, Web Scraping in Python, GitHub Foundations, Intermediate Python, Intermediate SQL.