Nafisa Anjum

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LinkedIn | GitHub

EDUCATION

2018 - 2023	**BSc in Electronics and Telecommunication Engineering**
	Chittagong University of Engineering and Technology
	CGPA **3.89** on a scale of **4.0**

RESEARCH INTERESTS

Data Science | Deep Learning | Machine Learning | Big Data | Computer Vision | Explainable AI

TEACHING EXPERIENCE

2023 - Present	**Lecturer, Department of Computer Science and Engineering**
	Premier University
	Responsibilities include teaching theory courses, instructing laboratory experiments, providing counseling to students and performing various departmental duties

2022 - 2023	**Mentor, CUET Computer Club**
	Chittagong University of Engineering and Technology
	Designed lesson plans and took classes on neural networks, conducted workshops on research idea building and research paper writing, organized webinars with popular tech companies of Bangladesh.

PUBLICATIONS

Journal Articles

1. **Anjum, N.**, Sathi, K. A., Hossain, M. A., & Dewan, M. A. A. (2023). A Temporal Transformer-Based Fusion Framework for Morphological Arrhythmia Classification. *Computers*, *12*(3), 68.

Manuscripts Under Review

1. Morshed, A.; Al Shihab, A.; Jahin, M.A.; Al Nahian, M.J.; Sarker, M.M.H.; Ibne Wadud, M.S.; Uddin, M.I.; Siraji, M.I.; **Anjum, N.**; Shristy, S.R.; Rahman, T.; Khatun, M.; Javed, F.I.; Dewan, M.R.; Hossain, M.; Sultana, R.; Chakma, R.; Emon, S.B.; Islam, T.; Hussain, M. Ultrasound-Based AI for COVID-19 Detection: A Comprehensive Review of Public and

Private Lung Ultrasound Datasets and Studies. Preprints.org 2023, 2023030296. https://doi.org/10.20944/preprints202303.0296.v1

Conference Papers

1. **N. Anjum** and P. Dutta, "Identifying Counterfeit Products using Blockchain Technology in Supply Chain System," 2022 16th International Conference on Ubiquitous Information Management and Communication (IMCOM), Seoul, Korea, Republic of, 2022, pp. 1-5, doi: 10.1109/IMCOM53663.2022.9721789.

2. P. Dutta, T. Roy and **N. Anjum**, "COVID-19 Detection using Transfer Learning with Convolutional Neural Network," 2021 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), DHAKA, Bangladesh, 2021, pp. 429-432, doi: 10.1109/ICREST51555.2021.9331029.

3. P. Dutta and **N. Anjum**, "Optimization of Temperature and Relative Humidity in an Automatic Egg Incubator Using Mamdani Fuzzy Inference System," 2021 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), DHAKA, Bangladesh, 2021, pp. 12-16, doi: 10.1109/ICREST51555.2021.9331155.

TECHNICAL SKILLS

- **Device Simulator** – Colab, MATLAB & Simulink, Remix, 8086 Emulator, Cadance, Cisco Packet Tracer, CST Studio
- **Programming Languages and Frameworks** – Python, C/C++, Tensorflow, Assembly Language (8086), JavaScript, Java, HTML, CSS, Solidity, MongoDB, ReactJS
- **Applications**: Microsoft Word, PowerPoint, Excel, Adobe Illustrator, Photoshop, LaTeX, git

PROJECTS

- Morphological Arrhythmia Classification from ECG signal using Temporal Transformer -based Framework
  Check it out!

- Stack Overflow Developer Survey Data Analysis
  Check it out!

- Human Activity Recognition from smartphone data using Machine Learning
  Check it out!

- IdentiCo – Ethereum based supply chain management to detect fake products
  Check it out!

AWARDS AND SCHOLARSHIPS

- **Graduated with Honors**, *Merit Position : 2nd*

- **Tech Spark 2021 Project Contest | 1st Runner Up** - IEEE CUET WIE Affinity Group (2021)
  - *Awarded 1st Runner up position in a national-level project contest conducted in 4 rounds encouraging projects that targeted solutions to specific problems for industry 4.0.*

- **Bangladesh Open Source Network DevMania 2021 | 2nd Runner Up** - Bangladesh Open Source Network (2021)
  - *A national-level project hackathon encouraging the application of AI, Machine Learning, and FinTech in industries.*
  - *Awarded 2nd Runner Up position for designing a Blockchain based decentralized application for detecting counterfeit products in Supply Chain Management.*

- **Recruitment 4.0 | 2nd Runner Up** - JobMarketBD (2019)
  - *Awarded 2nd Runner up position in an Inter University Competition on solving a business case on recruiting management trainees in industries.*

- **Government Merit Scholarship** – *Awarded by **Ministry of Education** of Bangladesh for outstanding national rank in Higher Secondary (2017) and Secondary School (2015) Examinations*

ACADEMIC SERVICE AND COMMUNITY OUTREACH

- **Technical Writer, GeeksForGeeks** (Attachments: [Article 1](#), [Article 2](#))
  - *Gained experience in technical content writing with published articles in geeksforgeeks.org, an international computer science portal with about 50.10m monthly visits.*

- **Presentation Secretary, CUET Career Club** (2022 – 2023)
  - *Conducted sessions on impactful presentations as well as business case solving by collaborating with various companies.*

- **Trainee, Scholarship School Bangladesh Research Camp** (2022)
  - *Studied research design, conducted literature search, devised research plan, designed method of recording and analyzing data, and executed all tasks pertaining to survey of COVID-19 ultrasound data research papers.*

- **Campus Ambassador, Programming Hero** (2021-2022)
  - *Carried out responsibilities such as participating and engaging university clubs on sessions held by the company, organizing hackathons, managing technical blogs and so on.*

- **Graduate of Building Bridges through Leadership Training Program, Bangladesh Youth Leadership Center** (2019)

- *Developed team work, problem solving skills by participating in a three months intensive leadership training program with 1.5 month active involvement in community service among underprivileged communities in Chattogram district.*

- *Trained 24 young girls of the community on skills, prerequisites and areas of higher education as a part of leadership towards education for women and 15 among them are currently enrolled in universities.*

REFERENCES

- **Prof. Dr. Md. Azad Hossain**
  Professor, Department of Electronics and Telecommunication Engineering (ETE)
  Chittagong University of Engineering and Technology
  Email: azad@cuet.ac.bd

- **Prof. Dr. Md. Saiful Islam**
  Professor, Department of Electronics and Telecommunication Engineering (ETE)
  Chittagong University of Engineering and Technology
  Email: saiful05eee@cuet.ac.bd

- **Khaleda Akhter Sathi**
  Lecturer, Department of Electronics and Telecommunication Engineering (ETE)
  Chittagong University of Engineering and Technology
  Email: sathi.ete@cuet.ac.bd