

MOHIMINUR RAHMAN KHAN SHIKTO

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SUMMARY

Electronics and Telecommunication Engineering undergraduate with a strong foundation and strong hands-on experience in machine learning (PyTorch/TensorFlow), MLOps, and VLSI/physical design using Cadence Virtuoso. Comfortable building end-to-end AI pipelines, model training and working with EDA flows. Eager to contribute in fast-paced, AI or semiconductor focused teams.

PROJECT

AI Driven Question Answering System – SemEval 2024 (Top 50/300+ teams)

- Led a 4-member team to design a tabular QA pipeline; boosted answer accuracy to 87 % using SLM.
- Managed iterative model refinement workflows through daily synchronization using Python and PyTorch, adjusting hyperparameters in response to experimental findings and evaluation feedback.

3x8 CMOS Decoder

- Designed a 3x8 CMOS decoder as well as did transient analysis of the design in Cadence Virtuoso.

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BhashaJog: Translation from Chatgaya Bangla to Standard Bangla

- Created a workflow to process Chatgaya Bangla text for translation stages using an m2m-100 pretrained neural model, applying Python and NLP toolkits.

Paraphaser-GAN Generative Adversarial NLP

- Re-implemented and extended DivGAN for diverse Bangla paraphrase generation (GitHub)

Intelligent Prognostics for Rolling Element Bearing Faults

- Developed and trained convolutional neural networks (CNNs) in Python and PyTorch to predict faults in rolling element bearings, utilizing vibration and sensor data for maintenance scheduling.
- Prepared technical documentation and shared research findings through a peer-reviewed conference publication.

Patch Based Image denoising Using GAN

- A project inspired from the paper “Fractal Generative Networks”.

Hybrid Fractal Inspired GAN For Real Life Image Denoising (Thesis)

- Developed a hybrid Generative Adversarial Network for real-life image denoising by integrating fractal expansion rules within the generator to enhance multiscale detail recovery using Python and PyTorch.

EDUCATION

Bachelor of Science in Electronics and Telecommunication Engineering

Chittagong University of Engineering and Technology (CUET) · Chittagong, Bangladesh · 2025 · 3.52

INVOLVEMENT

NASA Space Apps Challenge 2024 – National Finalist:

Chittagong University of Engineering and Technology (CUET),

- Collaborated in a multidisciplinary team, leveraging skills in data analysis, digital design, and application prototyping to present the project and advance to the national finalist stage.

Organizing Secretary, CUET Photographic Society

Chittagong University of Engineering and Technology (CUET),

- Manage budget and logistics for 6+ campus-wide events; grew membership 40 %.

Joint General Secretary, Supply Chain & Business Alliance CUET

Chittagong University of Engineering and Technology (CUET)

- Liaise with HR teams of firms (e.g., Shanta Asset Management) to secure internships & workshops.

SKILLS

Digital Design and Architecture: Verilog HDL, SystemVerilog, Quartus Prime, ModelSim-Altera.

VLSI: Cadence Virtuoso (Schematic, Layout, ADE XL), Assura DRC, LVS, RCX, Transient Analysis.

Programming: Python (PyTorch, OpenCV, NLTK, Scikit-Learn), C/C++, MATLAB.

Machine Learning: Supervised Learning, Large Language Models, Deep Neural Networks

EDA & Simulation: EDA Playground, Logisim, Proteus.