

Shovon Sharma

📍 Khulna, Bangladesh 🌐 Github ☎ +880-1300346877
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Technical Skills

Languages: C/C++, Python, Go, Bash

Databases: MySQL, Oracle SQL, SQLite, PostgreSQL

Frameworks/Technologies: PyTorch, JAX/Flax, Blockchain, Laravel, React

Tools/Platforms: Git, Docker, Linux, Node.js

Projects

DMoEBERT for Natural Language Inference (Thesis)

Designed and deployed a scalable encoder-only model with *Weight compression*, *Dynamic-Tanh activations* and *Mixture-of-Experts (MoE) layers* for NLI; trained 23M and 45M parameter variants from scratch under resource constraints, achieving 84% accuracy on SNLI (benchmarked) and outperforming BERT-base (110M, LoRA PEFT) in model efficiency and resource usage.

Sharma's Drive – Decentralized File Sharing & Storage Platform with P2P Interactions [↗](#)

Built a *blockchain* based decentralized file(audio, img, video, zipfile) sharing and storage system using *Solidity smart contracts*, *Node.js backend* and *React frontend*, enabling secure, tamper-proof user uploads and retrievals.

Sharma's Cache System – a redis clone(Ongoing) [↗](#)

Building a lightweight, in-memory key-value store in *Go*, inspired by *Redis*.

LLaMa3 from scratch [↗](#)

Implemented LLaMa3 architecture from scratch in *PyTorch*, including *RoPE*, *KV caching*, and *GQA*.

SpicyMew [↗](#)

Developed a full-stack food ordering platform using *Laravel* and *MySQL*, streamlining user experience with real-time ordering, admin interface and integrated schema management.

Chomp Chase – AI Maze Race Game [↗](#)

Built a dynamic maze-solving game in *Python*, generating unique mazes using *DFS with backtracking*. Designed an AI opponent using the *A* pathfinding algorithm* to locate food — the first to reach it wins.

Education

B.Sc. in Computer Science and Engineering

Khulna University of Engineering & Technology (KUET)

Jan 2020 – Present

Higher Secondary Certificate (HSC)

Govt. M.M City College, Khulna

Board Merit Position: 23

2017 – 2019

Technical Writing

- Contributor on Medium, writing blogs on Linux, Data Structure, Blockchain, and AI.
- Notable articles:
 - *The No-Nonsense Guide to Attention, Linear Attention, GPU Memory and Flash Attention: From Math to Code* [↗](#)
 - *Let's take a sql adventure : From theory to LeetCode* [↗](#)
 - *Let me teach u Bash: From 'hello world' to User Management* [↗](#)
 - *Understanding Vision Transformers from First Principles: Theory and Code* [↗](#)
 - *The No-Nonsense Guide to Neural Network Normalization (BatchNorm, LayerNorm & RMSNorm): From math to code* [↗](#)