Siam Arefin

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EDUCATION

BSc in Software Engineering
Shahjalal University of Science and Technology
01/2020 – 11/2025 | Sylhet, Bangladesh

SKILLS

Machine Learning & Deep Learning
- Supervised Learning (SVM, Decision Trees, KNN), CNNs, RNNs, Transformers, Reinforcement Learning, Object Detection, YOLO, TensorFlow, PyTorch, feature engineering, ETL, Data Engineering

MLOps:
- FastAPI, Docker, model monitoring, GitHub Actions, Azure, CI/CD, Git, n8n, ngrok

Generative AI & LLMs
- Prompt Engineering, LLM Fine-tuning, Seq2Seq, Tokenization, PyTorch, LangChain, RAG, Vector Databases, Hugging Face, Agents

Problem Solving
- Solved 800+ problems on Codeforces and other platforms.

Frameworks
- React.js, Express.js, Node.js, MongoDB, Google Gemini API, Scikit-learn, JWT, bcrypt, Authentication

Languages
C, C++, Java, Python, R, SQL, JavaScript

COMPETETION

- Multi-Instance Object Detection Challenge 🔗 - 1st place International competition hosted by a USA startup
- ML Olympiad - CO_2 Emissions Prediction Challenge 🔗 - 1st runner-up
- DL Enigma 1.0 🔗 - SUST CSE Carnival 2024 - 4th place
- DL Sprint 3.0 | Bengali AI Math Olympiad 🔗 - Top 10
- Bhashamul: Bengali Regional IPA Transcription 🔗 - Top 10
- Robi Datathon 3.0 🔗 - Top 20

EXPERIENCE

Software Engineer (ML team) Intern
Kite Games Studio, Mohakhali DOHS, Dhaka (Onsite)
11/2025 – 01/2026 | Bangladesh
- Extensively working on R&D in Image Processing, Machine Learning, Image Generation.
- Key contributor to an Android app with 5 Million+ downloads in 8 months, currently achieving almost 1 Million monthly downloads and 700K+ daily active users.

omicML: An Integrative Tool of Bioinformatics and Machine Learning Algorithms to Identify Transcriptomic Biomarkers
12/2024 – 10/2025
Collaboration with Cross-Functional Teams – Department of Biochemistry and Molecular Biology (BMB), SUST
Role: Machine Learning Backend Developer
- Implemented scalable ML deployment and monitoring pipelines using MLOps best practices.
- Collaborated with bioinformatics researchers to integrate computational modeling with biological large data analysis.

PROJECTS

Multi-Instance Object Detection – Duality AI (1st Place) 🔗
06/2025 – 07/2025

Technologies Used: FalconCloud, YOLOv8, Ensemble Methods, Data Augmentation, Object Detection, Post Processing, WBF ensemble

- Merged synthetic datasets from multiple sources and applied ensemble learning to bridge Sim2Real gap
- Implemented custom postprocessing (NMS, confidence filtering) and fine tune YOLO model to maximize generalization to real-world images

Bengali AI Math Olympiad – DL Sprint 3.0
Kaggle Competition | Generative AI, NLP, Mathematical Reasoning
Technologies Used: Qwen LLM, Deepseek, Hugging Face, Python, Transformer, NLP, Fine-tuning, Prompt Engineering
- Improved Bengali mathematical reasoning using Chain-of-Thought (CoT) prompting
- Enhanced multilingual problem-solving accuracy through prompt engineering