Md. Nur Siddik Ruman

AI/ML Specialist

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ABOUT ME

Highly motivated final-year student with a strong problem-solving mindset and a demonstrated passion for Artificial Intelligence and Machine Learning. Proficient in Python, C++, React.js, and .NET. Winner of a shared task competition on Tamil hate speech detection using transformer-based models. Built GPT-2 from scratch with PyTorch and deployed real-world ML applications using Streamlit. Eager to contribute and grow as an AI engineer through impactful, hands-on work.

EDUCATION

B.Sc in Computer Science & Engineering — *March 2022 - Present*

Chittagong University of Engineering & Technology

- CGPA: 3.46/4.00 (till 7th semester)
- Grade in Object-Oriented Programming (OOP) course: A-
- Grade in Software Engineering course: A
- Grade in Artificial Intelligence course: A

Higher Secondary Certificate (HSC) — *2020*

Govt. Azizul Haque College, Bogura

- GPA: 5.00

Secondary School Certificate (SSC) — *2018*

Bogura Zilla School, Bogura

- GPA: 5.00

SKILLS

- **Technical Skills:**
  - **Programming languages:** C, C++, C#, Python, SQL, JavaScript
  - **AI & ML:** Deep Learning, Natural Language Processing (NLP), AI agents, Large Language Models (LLMs), and Supervised & Unsupervised Learning.
  - **Web Development:** HTML, CSS, React.js (Frontend), .NET (Backend)
  - **Frameworks:** PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Transformers (Hugging Face), LangChain, Langgraph
  - **Tools & Platforms:** Git & GitHub, Streamlit, Visual Studio Code, MySQL, Jupyter Notebook, Codeforces(Pupil)
- **Soft Skills:**
  - Strong Problem-Solving Ability
  - Quick Learner & Self-Motivated
  - Team Collaboration & Communication
  - Adaptability in Fast-Paced Environments
  - Research-Oriented Mindset
  - Critical Thinking and Debugging Skills

PROJECTS

- **CUET Event Budget Predictor App**
  - Developed a machine learning-based web app to predict event budgets for CUET using Streamlit.
  - Leveraged machine learning algorithms like XGBoost to deliver accurate financial forecasts for event planning.
  - *Tools & Technologies: Python, Streamlit, XGBoost, Pandas, Scikit-learn*
- **Nuclear Domain AI Assistant**
  - Developed a document-aware AI chatbot for nuclear-domain question answering using Retrieval-Augmented Generation (RAG).
  - Implemented a Gemini-powered ReAct agent with strict safety constraints, citation-based answers, and controlled web fallback.
  - *Tools & Technologies: Python, Streamlit, LangChain, Gemini 2.5, FAISS, RAG, Google Generative AI, Tavily Search*
- **Bangla Physics MCQ solver using LLMs**
  - Developed an LLM-based solution to solve Bangla Physics multiple-choice questions.
  - Used open-source LLM models (Llama, Qwen, and Mistral) to predict the correct option, and among them, Qwen3-14B achieved a score of **0.92** on the private score.
  - *Tools & Technologies: Python, Hugging Face Transformers, Qwen3, Mistral, LLaMA, PyTorch*
- **Caste & Migration Hate Speech Detection with BERT**
  - Engineered a hate speech detection model for a low-resource language (Tamil) by fine-tuning Hugging Face transformers.
  - Achieved a benchmark macro F1-score of **0.88** on the test set.
  - *Tools & Technologies: Python, Hugging Face Transformers, BERT, PyTorch, Scikit-learn*
- **GPT-2 from scratch**
  - Built GPT-2 small (~124M parameters) from scratch using PyTorch.
  - Manually implemented internal components to understand transformer architecture.
  - *Tools & Technologies: PyTorch, NumPy, Python, Transformer Architecture*
- **Restaurant Management System**
  - Developed a CLI-based restaurant system using Bash scripting on Linux.
  - Designed separate admin and user roles for better task management.
  - *Tools & Technologies: Bash, Linux, Shell Scripting*

ACHIEVEMENTS

- **Winner – Shared Task Competition, LT-EDI @ LDK 2025** *2025*
  - Ranked 1st for developing a transformer-based model for Tamil caste and migration hate speech detection.
- **Winner – Intra CUET Machine Learning Contest 2025** *2025*
  - Ranked 1st for developing an LLM-based solution for solving Bangla Physics MCQ problems
- **Finalist – Televerse 1.0 AI-Fication Hackathon** *2025*
  - Ranked top 13th for developing a robust Automatic Speech Recognition(ASR) system for transcribing 20 regional Bangla dialects.

CERTIFICATIONS

- **EDGE Course—BD:** Front-End Development (React/NodeJS/VueJS/AngularJS) *April 2025*
- **Coursera-Stanford University:** Supervised Machine Learning: Regression and Classification *September 2024*

EXTRA-CURRICULAR ACTIVITIES

- Member – CUET Computer Club *2022-2023*
- Participant – Coding Competition, CUET CSE Fest *2022*
- Instructor – ML wing, IEEE Computer Society CUET Student Branch Chapter *2025*