

Sourish Chatterjee

Location: Kolkata, WB, India

sourish.xyz | [sourishchatterjeeml](https://www.linkedin.com/in/sourishchatterjeeml) | [sourize](https://sourize.com) | contact.sourishchatterjee@gmail.com | Mobile: +91 9330319122

CAREER OBJECTIVE

I am a final-year **Computer Science Engineering** student specializing in **AI/ML**, with hands-on experience in **time-series forecasting (93.5% holdout accuracy)** and **anomaly detection (96.2% recall)**, and published **transformer-LoRA adapters (70+ downloads)**. I am eager to apply **these skills** to **impactful projects** that drive innovation and foster **continuous learning**.

TECHNICAL SKILLS

Languages : Python (Advanced), Java (Intermediate), C, SQL
Frameworks : TensorFlow/Keras, PyTorch, Scikit-learn, Pandas, NumPy
Tools & Platforms: Google Cloud Platform, Git & GitHub, Google Colab, Jupyter Notebook, VS Code, Excel
Data Analysis : Data Mining, Preprocessing, Feature Engineering, Predictive Modeling, Visualization (Matplotlib)

PROJECTS

- DeepTalks** *Hugging Face · PEFT · Transformers* [HuggingFace](#)
- Developed and fine-tuned a **LoRA adapter** for **Microsoft Phi-2**, injecting short-term memory with only **0.2%** of base parameters.
 - Achieved a **validation loss of 1.10** on a **35 K-token corpus** and attracted **70+ downloads** on Hugging Face.
- Price Pulse** *TensorFlow/Keras · LSTM* [GitHub](#)
- Engineered a **3-layer LSTM** on **5 years of Nifty 50** data, delivering **93.5% forecasting accuracy** on a 6,500-sample holdout set (**17.2% above ridge regression**).
 - Deployed as a **Hugging Face Space**, securing **100+ user interactions** in the first month.
- NavAI-Guard** *Scikit-learn · AutoencoderTensorFlow/Keras · LSTM* [GitHub](#)
- Trained an unsupervised **autoencoder** on **1.4 M AIS records** (speed, heading, position) with noise reduction, achieving **96.2% recall**, **4.8% false-positive rate**, and **28% faster convergence**.
 - Deployed on **Hugging Face Space**, able to process **3,000** vessel updates/min at **150 ms latency** and reducing **manual oversight by 30%**.
- Decodex** *PyTorch · Transformer* [GitHub](#)
- Built GPT-style decoder from scratch with **multi-head attention & positional embeddings**.
 - Optimized training with **AdamW** and **layer normalization** for **20% faster convergence** on a **classic-literature corpus**.

POSITIONS OF RESPONSIBILITY

- Peer Tutor – Python & ML** 2024–Present
Meghnad Saha Institute of Technology
- Taught fundamentals of Python and introductory ML concepts to **20+ first-year students**, developing lesson plans and quizzes.
 - Collected feedback after each session and iterated materials to improve clarity, achieving an average rating of 4.8/5.

CERTIFICATIONS

[Google Cloud Platform Fundamentals](#) || [Generative AI Specialization by Google](#) || [MOOCs - ML & CS](#)

EDUCATION

Meghnad Saha Institute of Technology Kolkata, WB, India
Bachelor of Technology in Computer Science Engineering with specialization in AIML 2022 – 2026