

Sourish Chatterjee

Location: Kolkata, WB, India

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CAREER OBJECTIVE

Pre-final year Computer Science Engineering student specializing in AI & ML, with hands-on experience in LSTM forecasting, anomaly detection, and transformer models. Looking for an opportunity to contribute to innovative projects, improve technical skills, and grow in a dynamic, learning-oriented environment.

TECHNICAL SKILLS

Languages : Python , Java, 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	<i>Hugging Face · PEFT · Transformers</i>	GitHub
<ul style="list-style-type: none">Designed and trained a LoRA adapter for Microsoft's Phi-2 model, adding short-term conversational memory with only 0.2 % of the base model's parameters.Fine-tuned on a subset (7 %) of the HyperThink-Mini-50K dataset using gradient-checkpointing and FP16, achieving validation loss 1.10.Published the adapter weights on Hugging Face, earning over 70 downloads to date for integration in context-aware chatbot workflows.		
Decodex	<i>PyTorch · Transformer</i>	GitHub
<ul style="list-style-type: none">Implemented a decoder-only GPT model from scratch using PyTorch, inspired by the Transformer architecture in <i>Attention Is All You Need</i>.Developed multi-head self-attention, positional embeddings, and autoregressive text generation to train on character-level tokenization.Optimized training with AdamW and layer normalization, achieving efficient text generation from a dataset of classic literature.		
Price Pulse	<i>TensorFlow/Keras · LSTM</i>	GitHub
<ul style="list-style-type: none">Developed an LSTM-based time-series forecasting model to predict Nifty 50 stock prices, improving accuracy over traditional regression models.Engineered financial features and preprocessed stock price data to enhance predictive performance, leveraging TensorFlow/Keras for model training.Achieved 90%+ accuracy, demonstrating the model's effectiveness in capturing temporal dependencies and outperforming baseline regression models.		
NavAI-Guard	<i>Scikit-learn · AutoencoderTensorFlow/Keras · LSTM</i>	GitHub
<ul style="list-style-type: none">Developed an autoencoder-based anomaly detection model to analyze AIS data, identifying deviations in ship movements with high accuracy.Engineered data preprocessing, including feature selection (speed, heading, position) and noise reduction, improving model efficiency.Built a scalable deep learning architecture for real-time maritime anomaly detection, enhancing security and operational monitoring.		

CERTIFICATIONS

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

EDUCATION

Meghnad Saha Institute of Technology
Bachelor of Technology in Computer Science Engineering with specialization in AIML

Kolkata, WB, India
2022 – 2026