

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. Seeking an opportunity to contribute to innovative projects, enhance technical skills, and grow in a dynamic, learning-focused 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

<u>Decodex</u>	<i>PyTorch · Transformer</i>	<u>GitHub</u>
<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.		
<u>Price Pulse</u>	<i>TensorFlow/Keras · LSTM</i>	<u>GitHub</u>
<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.		
<u>NavAI-Guard</u>	<i>Scikit-learn · AutoencoderTensorFlow/Keras · LSTM</i>	<u>GitHub</u>
<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.		
<u>RagBot</u>	<i>Streamlit · FAISS · Hugging Face</i>	<u>HuggingFace</u>
<ul style="list-style-type: none">Built a PDF-based chatbot using Streamlit that enables document QA through RAG architecture and an intuitive chat interface.Used FAISS and sentence-transformers for accurate semantic search over uploaded PDFs.Integrated distilbert-base-cased-distilled-squad for generating document-aware answers via Hugging Face Transformers.		

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