Sourish Chatterjee

Kolkata, WB, India

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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 (100+ downloads). I am eager to apply these skills to impactful projects that drive innovation and foster continuous learning.

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)

Experience

Academy Of Skill Development, (GitHub—Certificate)

Jan 2024 - Feb 2024

Data Analyst Apprenticeship

Kolkata, WB

- Analyzed 100K+ stock records to identify price trends and volatility patterns
- Delivered actionable insights that influenced data-driven investment decisions
- Collaborated with a 4-member team to streamline analysis workflows and cut processing time by 20%

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 110+ downloads on Hugging Face.

PricePulse | TensorFlow/Keras , LSTM

- Engineered a 3-layer LSTM on 5 years of Nifty 50 data, delivering 93.5% forecasting accuracy on a 6,500 sample holdout set, outperforming ridge regression by 17.2%.
- Deployed as a **Hugging Face Space**, securing 80+ user interactions in the first month.

NavAI-Guard | Scikit-learn · Autoencoder · TensorFlow/Keras

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 vessel updates/min at ~ 150 ms latency and reducing manual oversight by $\sim 30\%$.

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.

Achievement

- Developed an adapter model for the Phi-2 conversational AI framework to enable short-term memory, achieving 110+ downloads on Hugging Face.
- Achieved top 10 in SAP Hackfest 2025 (college level), qualified for the state round by pitching an XAI-powered fraud
- Conducted Python & ML workshops, teaching fundamentals to 20+ first-year students with strong feedback scores

Certifications

Google Cloud Platform Fundamentals, Generative AI Specialization by Google, MOOCs - ML & CS

Education

Meghnad Saha Institute of Technology

2022 - 2026

B. Tech in Computer Science and Engineering (AIML)

Kolkata, WB

Relevant Courseworks: Data Structures, Algorithms Analysis, Database Management, Machine Learning, Artificial Intelligence, Deep Learning, OOPs, Operating Systems, Soft Computing