

Sourish Chatterjee

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EXPERIENCE

- Machine Learning Intern

Nov 2025 – Present

JcurveIQ

Remote

 - Supporting the development of **AI-powered research workflows** by working with **RAG pipelines**, **document ingestion**, and **retrieval systems**.
 - Assisting in building features that help analysts get **citation-based answers** and surface **financial red-flags** from **SEC filings** and **earnings transcripts**.
 - Contributing to improvements in **memo generation**, **ML tooling**, and internal **engineering workflows** as part of the **JcurveIQ** product team.
- Data Analyst Apprenticeship

Jan 2024 – Feb 2024

Academy of Skill Development

Kolkata, WB, India

 - Performed **EDA and statistical analysis** on NIFTY-50 time-series data, identifying volatility trends and designing **interactive dashboards** for actionable insights.
 - Collaborated with a **4-member team** to produce **reproducible notebooks** and deliver insights for **stakeholders**.

PROJECTS

- DeepTalks | *Hugging Face, PEFT, Transformers*

Hugging Face

 - Fine-tuned a **Phi-2 (2.7B)** language model using LoRA with **3.5K+ samples**, optimizing compute efficiency while maintaining conversational quality.
 - Enhanced **multi-turn dialogue coherence** and published the model on Hugging Face with **110+ downloads**.
- Prompt2Frame | *FastAPI, Docker, Manim, FFmpeg*

GitHub

 - Built a **modular 3-stage microservice pipeline** (Prompt Expansion → Code Generation → Rendering) for automated animation generation.
 - Implemented **syntax validation**, **resource-aware rendering presets**, and **containerized deployment** ensuring reproducible and scalable execution.
- NavAI-Guard | *TensorFlow, Scikit-learn, Hugging Face Space, GitHub*

GitHub

 - Developed an **unsupervised autoencoder model** to detect anomalous vessel behavior in AIS data, achieving **95.7% accuracy** with a **2.3% false-positive rate**.
 - Designed a **real-time data pipeline** for streaming AIS records (10K ships/min) and deployed interactive visualizations for operational insights.

ACHIEVEMENTS & CERTIFICATIONS

- Published a fine-tuned **LoRA adapter** on Hugging Face with **110+ global downloads**, contributing to the open-source NLP community.
- Secured a **Top 10** position in **SAP Hackfest 2025 (college level)** for developing an explainable AI-based fraud-detection portal using ensemble models and SHAP.
- Mentored school students in STEM** for over 5 years, demonstrating strong leadership, communication, and teaching abilities.
- Completed multiple certifications, including: GCP Fundamentals, Gen AI Specialization & MOOCs (ML&CS).

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: TensorFlow / Keras, PyTorch, Scikit-learn, Hugging Face
Developer Tools: Pandas, NumPy, Matplotlib, Docker, Git/GitHub, FastAPI, GCP (Fundamentals)
Core Competencies: Machine Learning, Deep Learning, Data Analysis, API Development, Model Deployment

EDUCATION

Meghnad Saha Institute of Technology

Bachelor of Technology in Computer Science Engineering with Specialization in AI & ML

Kolkata, WB, India

June 2022 – July 2026