

Sourish Chatterjee

My Portfolio | [LinkedIn](#) | [GitHub](#) | Email: contact.sourishchatterjee@gmail.com

Location: Kolkata, WB, India

| Mobile: +91 93303 19122

CAREER OBJECTIVE

Aspiring Data Scientist with expertise in data preprocessing, feature engineering, and predictive modeling. Passionate about utilizing data-driven insights and machine learning techniques to solve complex problems and drive innovation.

TECHNICAL SKILLS

Languages : Python, Java, C
Tools & Libraries : Pandas, Numpy, Matplotlib, Scikit-learn, Streamlit
Data Analysis : Data Preprocessing, Data Cleaning, Data Visualization
Platforms : Google Cloud, GitHub
Tools : Visual Studio Code, Google Colab, Jupyter Notebook, Git (basic)

PROJECTS

Nifty 50 Stock Prediction Model *Python, Numpy, Pandas, Scikit-Learn, VS Code, Streamlit* [Source Code](#)
[Live Model](#)

- Built and deployed a live stock price prediction model using Streamlit.
- Utilized Random Forest for predictive analysis, achieving over 90% accuracy on test data.
- Enhanced model performance through advanced feature engineering and optimization techniques.

Real Estate Price Prediction Model *Google Colab, Python, Numpy, Pandas, Matplotlib, Scikit-Learn* [Source Code](#)

- Preprocessed data using One-Hot Encoding, improving model accuracy by 15%.
- Trained a Random Forest Regressor achieving an R^2 score of 85% and Mean Squared Error (MSE) of 150,000.
- Optimized hyperparameters and enhanced feature selection, reducing prediction error by 10%.

Oil Spill Detection Using AIS Data and SAR Images (Hackathon Project) *Working On...* [Source Code](#)

- Focused on building an AIS-based anomaly detection model for maritime oil spills.
- Developed and tested ATS models, specifically Autoencoders and currently working on LSTM architectures, to identify anomalous ship movements.
- Contributed to the internal round qualification for the Smart India Hackathon 2024

GPT from Scratch *Working on..* [Source Code](#)

- Built a custom GPT model inspired by the "Attention Is All You Need" research paper.
- Trained the model on the **tinynshakespeare** dataset, generating text character by character.
- Designed and implemented encoding/decoding, dataset preparation, and tokenization using PyTorch.
- Explored foundational Bigram models and self-attention mechanisms, incorporating learnings from Andrej Karpathy's "Zero to Hero" series.

CERTIFICATIONS

[Google Cloud Platform](#) || [Generative AI](#) || [MOOCs](#)

EDUCATION

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

Delhi Public School Ruby Park *Kolkata, WB, India*
Higher Education in Computer Science *2020 – 2022*