

# Sourish Chatterjee

Location: Kolkata, WB, India

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## 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

- |  |  |                                    |
|--|--|------------------------------------|
| <b><u>Nifty 50 Stock Prediction Model</u></b><br><u>Live Model</u>   | <i>Python, Numpy, Pandas, Scikit-Learn, VS Code, Streamlit</i>       | <u><a href="#">Source Code</a></u> |
| <ul style="list-style-type: none"><li>Built and deployed a live stock price prediction model using Streamlit.</li><li>Utilized Random Forest for predictive analysis, achieving over 90% accuracy on test data.</li><li>Enhanced user engagement by implementing advanced feature engineering, reducing prediction errors by 15%.</li></ul>  |  |                                    |
| <b><u>Real Estate Price Prediction Model</u></b>   | <i>Google Colab, Python, Numpy, Pandas, Matplotlib, Scikit-Learn</i> | <u><a href="#">Source Code</a></u> |
| <ul style="list-style-type: none"><li>Preprocessed data using One-Hot Encoding, improving model accuracy by 15%.</li><li>Trained a Random Forest Regressor achieving an <math>R^2</math> score of 85% and Mean Squared Error (MSE) of 150,000.</li><li>Optimized hyperparameters and enhanced feature selection, reducing prediction error by 10%.</li></ul>   |  |                                    |
| <b><u>Oil Spill Detection Using AIS Data and SAR Images (Hackathon Project)</u></b>  | <i>Working On...</i>   | <u><a href="#">Source Code</a></u> |
| <ul style="list-style-type: none"><li>Focused on building an AIS-based anomaly detection model for maritime oil spills.</li><li>Developed and tested ATS models, specifically Autoencoders and currently working on LSTM architectures, to identify anomalous ship movements.</li><li>Contributed to the internal round qualification for the Smart India Hackathon 2024</li></ul>   |  |                                    |
| <b><u>GPT from Scratch</u></b>   | <i>Working on..</i>  | <u><a href="#">Source Code</a></u> |
| <ul style="list-style-type: none"><li>Built a custom GPT model inspired by the "Attention Is All You Need" research paper.</li><li>Trained the model on the <b>tinynshakespeare</b> dataset, generating text character by character.</li><li>Designed and implemented encoding/decoding, dataset preparation, and tokenization using PyTorch.</li><li>Explored foundational Bigram models and self-attention mechanisms, incorporating learnings from Andrej Karpathy's "Zero to Hero" series.</li></ul> |  |                                    |

## CERTIFICATIONS

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

## EDUCATION

<b>Meghnad Saha Institute of Technology</b> <i>Bachelor of Technology in Computer Science Engineering with specialization in AIML</i>	Kolkata, WB, India 2022 – 2026
<b>Delhi Public School Ruby Park</b> <i>Higher Education in Computer Science</i>	Kolkata, WB, India 2020 – 2022