

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

<u>Nifty 50 Stock Prediction Model</u> <u>Live Model</u>	<i>Python, Numpy, Pandas, Scikit-Learn, VS Code, Streamlit</i>	<u>Source Code</u>
<ul style="list-style-type: none">Working on transitioning from Random Forest to LSTM models to improve prediction accuracy and handle sequential data effectivelyAiming to achieve over 90% accuracy by leveraging the temporal capabilities of LSTM networksFocusing on enhancing model performance through advanced feature engineering and optimization to reduce prediction errors by 15%.		
<u>Real Estate Price Prediction Model</u>	<i>Google Colab, Python, Numpy, Pandas, Matplotlib, Scikit-Learn</i>	<u>Source Code</u>
<ul style="list-style-type: none">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%.		
<u>Oil Spill Detection Using AIS Data and SAR Images (Hackathon Project)</u>	<i>Working On...</i>	<u>Source Code</u>
<ul style="list-style-type: none">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		
<u>GPT from Scratch</u>	<i>Working on..</i>	<u>Source Code</u>
<ul style="list-style-type: none">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 <i>Bachelor of Technology in Computer Science Engineering with specialization in AIML</i>	Kolkata, WB, India 2022 – 2026
Delhi Public School Ruby Park <i>Higher Education in Computer Science</i>	Kolkata, WB, India 2020 – 2022