# Anuraaga Nath

**Email:** anuraaganath@gmail.com

**Phone:** 8584046383

**Address:** Kolkata, India

**Website:** 🔗 Anuraaga Nath

## Profile Summary

I am a dedicated Master's in Data Science student at BPPIMT, Kolkata looking to secure a role to showcase my skills in Data Science, Machine Learning and development. I am eager to work along the organization as requirements set by it to apply my technical to contribute in innovative, data-driven solutions and drive impactful business decisions, while continuing to grow professionally within the field.

## Education

**MTech in Data Science, MAKAUT (2023 – 2025), CGPA: 9.63/10**

B. P. Poddar Institute of Management and Technology, Kolkata

**BTech in Electrical Engineering, MAKAUT (2020 – 2023), CGPA: 9.37/10**

Heritage Institute of Technology, Kolkata

**Diploma in Electrical Engineering, WBSCT&VE&SD (2017 – 2020), CGPA: 9.00/10**

Central Calcutta Polytechnic, Kolkata

**Class X, WBBSE (2017), Percentage: 91.85%**

Jadavpur Vidyapith, Kolkata

## Skills

**Data Science & Analytics, AI/ML, Problem Solving**

- **Python:** Data Structure, OOPS, Data handling, manipulation, visualization, machine learning, Pandas, Numpy, Matplotlib, Seaborn, Plotly, Scipy, Statsmodels, Scikit learn, XGBoost, Tensorflow, Pytorch.
- **PL/SQL:** Query, Procedures, Cursor, Function, Trigger, Exceptions.
- **Machine Learning:** Regression, Classification, Clustering, Bagging, Boosting, Decision Tree, SVM, KNN, Random Forest, XGBoost.
- **Deep Learning**: ANN, CNN, RNN, LSTM, NLP, LLM.
- **Generative AI:** Transformers, Hugging face, GPT, BERT, Google Gemini, Gemma.
- **Version Control**: Git, GitHub
- **Tools**: Jupyter Notebook, Google Colab, Visual Studio Code.

## Internship

**Machine Learning Intern, Suvidha Foundation (Aug – Sep, 2023)**

- Engineered a text summarization model using Hugging face pretrained model achieving a **49% ROUGE-1** score using BART-L model.
- Achieved **similarity score of 42%** using GPT finetuning.
- Improved **accuracy score by 2%** in retraining models using different text sources.

## Projects

**Automated Prediction of Pulmonary Fibrosis Progression (2023 – 2024)**

**GitHub:** 🔗 Fibrosis-Analysis

- Developed a lightweight machine learning model to train patient metadata.
- Integrated a Convolution Neural Network (CNN) to analyze CT images.
- Achieved a Laplace Log Likelihood score of -4.48, demonstrating model efficiency.
- Attained an R2 score of 0.922 and Mean Squared Error (MSE) of 0.02.
- Surpassed benchmark models in performance metrics.

**Project Pred-the-Price (2023 – 2024)**

**GitHub:** 🔗 Project-PredthePrice

**Streamlit:** 🔗 Streamlit – Home

**Docker:** 🔗 docker hub: pred-the-price:1.2.2

- Developed multiple Car and Motorcycle resale price prediction ML models supporting 2010 – 2023 car data.
- Achieved 92%+ score in average on respective ML models.
- Designed an image based car type CNN model with a model accuracy of 99.8%.
- Created web application using Flask and deployed using Docker and Streamlit.

**Modern Lift Automation System using PLC (2022 – 2023)**

- Streamlined 20+ ladder logic functions to achieve precise life car positioning, efficient braking system, and emergency protocols.
- Validated extensive simulations across 20+ scenarios (including fault situations) to ensure flawless 3-floor system operations leading a 5 member team.

## Certifications

**IBM Data Science Professional Certificate (4/12)**

- What is Data Science - 🔗 Coursera
- Tools for Data Science - 🔗 Coursera
- Data Science Methodology - 🔗 Coursera
- Python for Data Science, AI & Development - 🔗 Coursera

**Linear Algebra for Machine Learning and Data Science - 🔗 Coursera**

## Publications

**ICICASEE 2023, GKCIET, Malda, WB, India**

**Doc:** 🔗 GKCIET-ConferencePaper2023.pdf

**Paper Name:** Comfortable and Safe Elevator System with Emergency Features and Smooth Braking using PLC

**Conference:** 1st International Conference on Intelligent Computation and Analytics on Sustainable Energy and Environment, 2023, SERB, Govt. of India (sponsored)

**Status:** Published

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