Anuraaga Nath

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anuraaga-nath AnuraagaNath

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 skills to contribute in innovative, data-driven solutions and drive impactful business decisions, while continuing to grow professionally within the field.

Education

GATE 2025 score: 354

B. P. Poddar Institute of Management and Technology, Kolkata *Aug 2023 – July 2025*
MTech in Data Science

- CGPA: 9.73/10.0
- **Coursework:** Data Analysis, Machine Learning, Deep Learning, Database, Data Mining.

Heritage Institute of Technology, Kolkata *Aug 2020 – July 2023*
BTech in Electrical Engineering

- CGPA: 9.37/10.0
- **Coursework:** Electrical Machines, Power System, Electronics, Signal and Systems.

Central Calcutta Polytechnic *Aug 2017 – July 2020*
Diploma in Electrical Engineering

- CGPA: 9.00/10.0
- **Coursework:** Basic Electronics, Electrical Systems

Jadavpur Vidyapith *2017*
Class X

- Marks: 643/700

Skills

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.

Projects

Automated Prediction of Pulmonary Fibrosis Progression (2023 – 2024) *github.com/AnuraagaNath/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.
- Tools Used: Python, Kaggle, Deep Learning.

Vehicle resale price prediction: Project Pred-the-Price (2023 – 2024) *github.com/AnuraagaNath/Project-PredthePrice*

- 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.
- Tools Used: Python, Kaggle, Deep Learning.

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.
- Tools Used: Siemens PLC automation.

Publications

Comfortable and Safe Elevator System with Emergency Features and Smooth Braking using PLC 2023

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

Emily Dutta, ***Anuraaga Nath***

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