Anuraaga Nath

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anuraaga-nath AnuraagaNath

Profile Summary

I am a dedicated **M.Tech 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

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

- CGPA: 9.73/10.00
- **Coursework:** Data Analysis, Machine Learning, Deep Learning, Database, Data Mining.

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

- CGPA: 9.37/10.00
- **Coursework:** Electrical Machines, Power System, Electronics, Signal and Systems.

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

- CGPA: 9.00/10.00
- **Coursework:** Basic Electronics, Electrical Systems

Jadavpur Vidyapith, Kolkata *2017*
Class 10

- Grade: 91.85%

Skills

Python: Data Structure, OOPS, Data handling, manipulation, visualization, machine learning, computer vision, Pandas, Numpy, Matplotlib, Seaborn, Plotly, Scipy, Statsmodels, Scikit learn, XGBoost, Tensorflow, Pytorch.

SQL: Relational databases, SQL syntax and queries, DDL & DML operations, Joins, Subqueries, Aggregate functions, ACID properties.

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.

Tools: Git, Jupyter Notebook, Google Colab, Visual Studio Code.

Projects

Lightweight and Fast CNN Classifier for Vehicle Type Recognition (2024 – 2025) *Ongoing Project*

- Engineered CNN architecture to be more efficient and very lightweight to detect car type like sedan, suv, pickup etc.
- Integrated with innovative data preprocessing that reduced model training time by 60%.
- Achieved accuracy of 98.5% with high f1-score of 0.98.
- Surpassed benchmark models in performance metrics.
- Tools used: Python, Colab, Deep Learning, Keras, OpenCV.

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.
- Created web application using 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 SIMATIC STEP 7 Professional.

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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Declaration

I hereby declare that all the information provided above is true and correct to the best of my knowledge and belief.

Date: _____

Place: _____

Signature: _____