

NAYAN ADHIKARI

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1. EDUCATION

Bachelor of Technology (Computer Science & Engineering)

College of Engineering & Management, Kolaghat

Oct 2022 – July 2026

CGPA 9.3

Class 12th / 10th – WBCHSE/WBBSE

Srirampur Agricultural High School

March 2022

Xth Percentage – 89%

XIIth Percentage – 96%

2. EXPERIENCE

I. Research Intern, IIT Kharagpur

Jan 2025 - Present

- Focuses on Depthwise Separable Convolutional Neural Network

3. PROJECTS

I. Air Quality Index Prediction [\[GitHub 📄\]](#)

Technologies: Python, ML, Scikit-Learn, Pandas, NumPy, Power BI, Matplotlib, Seaborn, Folium

- Built ML models (Random Forest, XGBoost) to predict AQI using real-world pollution data.
- Engineered key features (PM2.5, O2, CO, NO2) to enhance accuracy.
- Optimized models via hyperparameter tuning, achieving high prediction precision (99.25%).

II. Real Time Stock Market Price Prediction [\[GitHub 📄\]](#)

Technologies: Python, ML, TensorFlow, Scikit-Learn, Pandas, NumPy, Power BI

- Built LSTM and ARIMA models to forecast stock prices using historical data.
- Engineered technical indicators (Moving Averages, RSI, MACD) for better predictions.
- Optimized models via hyperparameter tuning, improving accuracy (92%).
- Visualized trends using Matplotlib and Seaborn and Power BI.

III. Task Management System using DSA in Java

- Developed a **Task Management System** using **Java** and core **Data Structures & Algorithms (DSA)** principles, enhancing project organization and task tracking.
- **Utilized** arrays, stacks, queues, linked lists, and HashMap **for efficient storage, retrieval, and management of tasks.**

4. CERTIFICATES

- Qualified GATE (Data Science & Artificial Intelligence) 2025 with a 373 GATE Score and a rank of 6783 [\[Certificate *\]](#)
- Numpy Tutorial Certificate by Great Learning. [\[Certificate *\]](#)
- Secured 3rd Position in Inter College Hackathon HACKATHON V3.0 [\[Certificate *\]](#)
- Awarded by the Fishery Minister of West Bengal for being the topper of the college of 2022-23 academic year. [\[Certificate *\]](#)
- Successfully passed Python (basic) certification test. [\[Certificate *\]](#)
- Successfully passed SQL (basic) certification test. [\[Certificate *\]](#)

5. SKILLS

- **Programming Languages:** Python, Java, C, SQL
- **Subjects:** DSA, DBMS, OOPS, Operating System, Computer Networks
- **Libraries & Frameworks:** Numpy, Pandas, Tensorflow, Matplotlib, Seaborn, Folium
- **Tools & Platform:** MySQL, Git, GitHub, Gitlab, Power BI, MS Excel
- **Machine Learning:** Supervised & Unsupervised Learning, Deep Learning, Model Optimization

