NAINA JOSHI

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Education

Graphic Era Hill University, Dehradun **2023 – Present**
B.Tech CSE (AI & DS), Batch of 2027 *CGPA: 7.64/10*

The Aditya Birla Public School **2023**
12th Standard *87.5%*

Projects

Cyber Crime Analysis System ***Nov 2025 - Ongoing***

- Aggregated **5+ years** of cybercrime records and conducted EDA using **pandas** and PostgreSQL to uncover key trends.
- Detected **high-risk regions** and **recurring offense patterns** using time-series analysis and geospatial clustering.
- Trained **3 classification models** (Logistic Regression, Random Forest, XGBoost) achieving up to **87% accuracy**.
- Crafted an interactive dashboard with **10+ visualizations** (heatmaps, trend curves, predictive flags) to support decision-making.

Smart Task Manager ***Aug 2025 – Nov 2025***

- Implemented a **real-time monitoring system** (CPU/RAM/Disk/Processes) using **FastAPI + psutil**, achieving **1-second refresh latency**.
- Integrated **5 ML components**: IsolationForest anomaly detector (96% precision), short-term CPU/RAM forecaster (3s/6s/9s), and data-driven threshold scaling.
- Engineered a **behavior-learning engine** analyzing **50+ user actions** to generate personalized recommendations with **0–1 confidence scoring**.
- Configured a **React dashboard** featuring **4 CPU scheduling simulations** (FCFS/RR/SJF/Priority), Gantt charts, and real-time alerting.

University Event Calendar System ***Apr 2025 – Aug 2025***

- Built a **full-stack scheduling platform** using **React, Node.js, and MongoDB**, adopted by 200+ university members.
- Implemented **clash detection** and automated approvals, reducing event conflicts by **40%**.
- Created a **reporting engine** generating PDF/Excel summaries, cutting manual work by **50%**.

Smart EV Charging Station Optimization ***Aug 2024 – Dec 2024***

- Analyzed charging patterns using **SQL** and **pandas** to identify demand surges and peak load hours.
- Designed **regression-based forecasting models**, improving load prediction accuracy by **85%**.
- Developed a **Flask + Google Maps** routing tool, reducing travel/wait times by **30%**.

Skills

- **Languages & DSA:** C++, Python, Java, C, Data Structures, Algorithms, OOPs
- **ML/DA:** Pandas, Numpy, Scikit-learn, TensorFlow, NLTK
- **Visualization:** Streamlit, Matplotlib, Seaborn, Tableau (basic)
- **Tools:** Git, GitHub, VS Code, ParticleJs, LaTeX
- **Development:** HTML, CSS, JS, Bootstrap, ReactJs
- **Databases:** SQL, MySQL, MongoDB
- **Cloud:** AWS, Google Cloud, Microsoft Azure (familiar)

Achievements

- Selected in **Adobe India Hackathon**, ranked among the **top 5%** nationwide.
- Finalist in national-level **coding & innovation contests**: ComSoc hackX, Innovation Contest, Neural Nexus Hackathon (Top 15/120+).
- Cleared internal round of the **Smart India Hackathon**, shortlisted for nationals.

Certifications & Training

- **AWS Solution Architect Job Simulation** – Forage *2025*
- **Data Analytics with Python** – Swayam *2024*
- **Google Cloud Computing Foundations** – NPTEL *2024*

Extracurricular Activities

Management Intern, Team Rogers **Jan 2023 – Present**
Graphic Era Hill University

- Coordinated festivals/workshops for **500+ participants**.
- Managed vendor and faculty communication, reducing scheduling conflicts by **15%**.
- Prepared performance and budgeting reports to streamline future planning.