Garvit Dubey

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Education

The NorthCap University, Bachelor of Technology in Computer Science	Sept 2021 – June 2025

- CGPA: 8.13/10.00

Meenakshi Public School, Higher Secondary School Graduate in Physics, Chemistry and Mathematics (CBSE Board)	April 2020 - May 2021

- Final Grade: 92.4

Work History

Summer Intern, Gurugram Cyber Police, Gurugram, India	June 2025 – July 2025

- **Selected among 500 candidates from over 10,000+ applicants**
- Engaged in brainstorming sessions on **cyber threat intelligence, crypto trends, and national cyber strategies,** and **made a project conducting multi-chain transaction analysis under the mentorship of a Senior Blockchain Researcher (Ministry of Defense).**
- **Attended elite sessions** led by experts from **CBI (CSAM), Narcotics Bureau, Ethical Hacking & Red Teaming** professionals, **Retired Air Force AI Data Center Head, Tech Masters from I4C and PCI DSS** focusing on cyber networks, **GRC (Governance, Risk & Compliance),** and **mentored by Dr. Rakshit Tandon.**

Data Analyst Intern, Metalman Auto Private, New Delhi (remote)	July 2024 – September 2024

- Worked with **large datasets** related to **production efficiency, machine downtime, and quality control.**
- Created **interactive dashboards** using **Tableau** to help managers **monitor production performance.**
- **Automated** parts of the reporting process using **SQL** queries and **Python**, reducing report generation time. Helped improve machine uptime and defect detection, leading to noticeable efficiency gains, estimated to be around **10 - 15%** based on team feedback.

Certifications

<u>**AWS Cloud Practitioner**</u>	**Harvard edX: CS50 by David Malan**
Machine Learning – Andrew Ng (Stanford Online)	**Deep Learning – Andrew Ng (DeepLearning.ai)**

Projects

MailMind: Automated Email Intelligence System	*Python, MeiliSearch, Google APIs, SQL, LLM*

- **Developed an automated email ingestion system** for secure retrieval and structured storage of emails.
- **Implemented intelligent email processing** for full text indexing, summarization, intent detection, and dynamic labeling based on heuristics.
- **Integrated Google Calendar and Slack APIs** for contextual meeting scheduling and alerting, utilized Postman for API testing, authentication validation, and debugging workflows.

TriNetra: Awake, Aware, Always - AI-Powered Video and Image Surveillance	*Python, Computer Vision*

- **Built a multi-model real-time surveillance system** for weapon detection, face recognition, fire/smoke, and accident alerts via transfer learning.
- **Optimized object tracking and inference** with ORB + FLANN feature matching and quantized models, achieving sub-500ms latency on CPU and reducing false positives by 35%.
- **Designed scalable and modular AI workflows** with dynamic configuration-based toggling, time-stamped alerts, and forensic logging of 200+ events in six AI modules.

Relevant Coursework

● **Machine Learning**	● **Deep Learning**	● **GANs**
● **CS50 (Harvard)**	● **AWS Cloud Practitioner**	● **Operating Systems**
● **DBMS**	● **Big Data**	● **Business Intelligence & Visualization**

Technical Proficiencies

- **Languages, Database & Tools:** Python, SQL, PostgreSQL, MySQL, Git, Postman
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Tableau, Exploratory Data Analysis (EDA), Feature Engineering, Data Cleaning, Data Normalization
- **Machine Learning & Deep Learning:** scikit-learn, TensorFlow, TensorFlow Lite, Keras, Hugging Face Transformers, Model Evaluation & Optimization, Hyperparameter Tuning, NLP, OpenCV