A D V I K   R A T H E E

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EDUCATION

B.TECH ELECTRONICS	2022 - Present	Bharati Vidyapeeth College of Engineering	71%
CBSE (Class XII)	2022	Mount Carmel School, New Delhi	70%
CBSE (Class X)	2020	Mount Carmel School, New Delhi	82%

OBJECTIVE

B.Tech student in Electronics and Communication Engineering with a strong interest in programming, data science, machine learning, and IoT. Seeking an opportunity to apply my technical skills, gain hands-on industry exposure, and contribute to real-world projects while continuously learning and growing in a professional environment.

SKILLS

Python, Java, C++, SQL, Data Cleaning, Data Analysis, Data Visualization, EDA, Machine Learning basics, Model Building, Model Testing, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Power BI, Data Structures, Basic Algorithms, OOPS, Git, Jupyter Notebook, Stream-lit, Excel

EXPERIENCE

Intern, **CERT-IN** , DELHI   22nd June 2025 – 29th August 2025

- Gained hands-on experience applying machine learning techniques to cybersecurity problems such as anomaly detection and threat classification, involving data collection, preprocessing, and analysis for model training and evaluation.
- Developed and optimized machine learning models using algorithms including Random Forest, Support Vector Machines (SVM), and Neural Networks to identify and classify potential cyber threats.
- Assisted in integrating machine learning models into real-world cybersecurity workflows to improve detection accuracy, automate analysis, and strengthen overall defence mechanisms.
- Improved proficiency in Python, data visualization, and model performance evaluation using metrics such as precision, recall, and F1-score.

ACADEMIC PROJECTS

Data Analyst Agent
- Developed an AI-powered Data Analyst Agent to analyse CSV data with automated insights.
- Built a Stream-lit interface for data analysis and visualization.

Sales Performance Analysis Dashboard
- Performed data cleaning, transformation, and EDA on sales data using Python and SQL.
- Created dashboards and visual reports using Power BI to identify trends and KPIs.

AI-Based Hardware Security Model
- Developed an AI-based system to detect hardware trojans using machine learning models and synthetic datasets.
- Performed data preprocessing and model evaluation for AI-based hardware security.

COURSES AND CERTIFICATIONS

- Python (Beginner to Advanced) – Udemy
- C++ (Beginner to Advanced) – Udemy
- Data Structures and Algorithms using Python – Udemy
- Machine Learning Specialization – Coursera
- IBM Data Science Professional Certificate – Coursera

SOCIAL

- https://github.com/AdvikRathee
- https://in.linkedin.com/in/advik-rathee