

# ARYAN BARTWAL

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## Education

### Graphic Era Hill University

Bachelor of Technology in Computer Science and Engineering

August 2022 - Current

Dehradun, Uttarakhand

### The Heritage School

Intermediate

July 2022

Dehradun, Uttarakhand

### The Heritage School

Matriculate

July 2020

Dehradun, Uttarakhand

## Projects

### Credit Card Fraud Detection System | *Python, Scikit-learn, Streamlit*

January 2025

- Built a ML system with Random Forest, achieving 98% accuracy and 96% F1 score in fraud detection.
- Applied data balancing techniques (under-sampling, SMOTE), boosting fraud recall to 94% and precision to 97%.
- Developed a Streamlit web app for real-time predictions, enhancing detection speed by 85%.

### E-Commerce Product Showcase | *HTML, CSS, JavaScript*

October 2024

- Built a dynamic product slider with smooth transitions and real-time product selection using JavaScript.
- Implemented interactive features like color and size selection, enhancing user experience.
- Designed a responsive and visually appealing UI with a seamless checkout process.

### University Website & Chatbot | *HTML, CSS, JavaScript*

November 2024

- Developed a responsive university website with sections for events, notices, achievements, and campus info.
- Implemented dynamic content with scrolling marquees for campus news, events, and placement updates.
- Designed an intuitive navigation system and integrated a chatbot for enhanced user interaction.

## Skills

**Programming Languages:** C/C++, HTML/CSS, JavaScript, Machine Learning, Python, Java.

**Technical Skills:** Web Development, Frontend Design, Responsive Design, REST APIs, UI/UX, Supervised Learning, Data Preprocessing, Model Evaluation, Version Control (Git, GitHub, GitLab), Deployment & Hosting.

**Software Development Tools:** Visual Studio Code (VS Code), Git, GitHub

**Frameworks and Libraries:** TensorFlow, Scikit-learn, OpenCV

## Certificates

- **Machine Learning Specialization** – Coursera (Andrew Ng) **12 Weeks, 2024**
- **Data Structures and Algorithms** – GeeksforGeeks **8 Weeks, 2023**
- **Web Development Bootcamp** – Udemy **10 Weeks, 2023**

## Coursework

- Data Structures and Algorithms
- Machine Learning
- Operating System
- Object-Oriented Programming

## Achievements & Leadership

- **Core Member, GEHU ACM** – Led and organized **hackathons, workshops, and technical events**, improving student participation.
- **Discipline Committee Head** – Supervised and managed **event logistics**, ensuring a smooth **Fresher's Event** experience.

## Hobbies

- **Playing Football, Badminton, and Basketball** – Enhances **teamwork, strategic thinking, and physical endurance**.
- **Reading** – Improves **knowledge, creativity, and critical thinking** skills.
- **Traveling** – Broadens **perspective, adaptability, and cultural awareness**.