# Aryan Bartwal

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## Education

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| **Graphic Era Hill University** | **August 2022 - Current** |
| *Bachelor of Technology in Computer Science and Engineering* \| ***7.08 CGPA*** | *Dehradun, Uttarakhand* |
| **The Heritage School** | **July 2022** |
| *Intermediate* \| ***78.2%*** | *Dehradun, Uttarakhand* |
| **The Heritage School** | **July 2020** |
| *Matriculate* \| ***70.2%*** | *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

## Coursework

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

## Achievements & Leadership

- Core Member, GEHU ACM – Participated in hackathons, workshops, and technical events.
- Discipline Committee Head – Managed and maintained order at the Fresher's Event.