

# RIYA GARG

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## Education



**Amity University, Noida, Uttar Pradesh** 2022-2026  
Bachelor of Technology in Computer Science and Engineering CGPA: 8.35

**Bal Bharati Public School, Pitampura, Delhi** 2010-2022  
Central Board of Secondary Education – Class 12th Percentage: 87%  
Central Board of Secondary Education – Class 10th Percentage: 84%

## Technical Skills

- **Coding Languages:** C, C++, Java, Python, HTML, CSS, JavaScript, SQL, PHP
- **Web Technologies:** Node.js, React.js, Next.js, Tailwind CSS, Firebase, MongoDB, Express
- **Coursework:** Data Structures and Algorithms, System Design, Database Management System, Object Oriented Programming, Operating System, Networking Fundamentals, Deep Learning, Machine Learning
- **Tools and Development Practices:** Git, GitHub, VS Code, Jupyter Notebook, Matlab, PyTorch, Matplotlib, Pandas, Numpy, TensorFlow, Scikit-learn, OpenCV, CyberGate

## Projects

- **Interactive Website Designed for B2B Communication**
  - Created a responsive and professional B2B commercial website tailored to showcase products and services for business clients.
  - Focused on clean layout, intuitive navigation, and mobile-first design to ensure a smooth user experience.
- **PetTrackQR: Lost Pet Finder System** | HTML, CSS, JavaScript, PHP, MySQL, XAMPP, GitHub Page 
  - Designed and developed a web-based system leveraging QR codes on pet collars to facilitate the recovery of lost pets.
  - Created a static front-end demo with responsive UI (GitHub Pages) and a full-stack dynamic application (PHP, MySQL, XAMPP).
  - Integrated QR code scanning functionality enabling instant retrieval of registered pet owner contact details.
  - [View Front End Demo](#)
- **Potato Disease Classification using Deep Learning** | Python, TensorFlow, PyTorch, OpenCV 
  - Designed and trained a CNN model achieving **94% accuracy** in classifying potato leaf diseases from image sets.
  - Implemented data augmentation, preprocessing, and model evaluation via confusion matrices.
- **AI-Based Fraud Cheque Detection System** | Python, OpenCV, Machine Learning
  - Developed an ML-based image processing pipeline for cheque forgery detection using OpenCV and Scikit-learn.
  - Achieved **90%+ detection accuracy** on a dataset of over 500 cheques, improving validation efficiency.
- **Research Paper – Internet of Things** | Python, Data Analysis, Visualization
  - Conducted comprehensive research on IoT architecture, applications, and its impact across industries, including data communication, sensor networks, and real-time analytics to enhance operational efficiency.
  - Investigated security challenges in IoT environments and proposed strategies for improving data privacy, protection, and overall system resilience.

## Experience

- **Intern** | Winniio – AB [View Certificate](#) May 2025- July 2025
  - Worked on **LifeAtlas Data Integrity and Security Project**, focusing on ensuring secure, reliable, and consistent health data management. Implemented strategies to enhance data integrity, privacy, and protection across health records and life event timelines.
- **Trainee** | AcmeGrade [View Certificate](#) February 2023- March 2023
  - Completed hands on training in ML Algorithms like Regression, KNN, and SVM using Python. Applied these techniques to real-world datasets for tasks such as classification, clustering, and predictive modelling using libraries like Scikit-learn and Pandas.

## Certifications

- Microsoft: Azure Fundamentals AZ-900 | [View Certificate](#)
- Cisco CCNAv7: Introduction to Networks | [View Certificate](#)
- NVIDIA: Fundamentals of Deep Learning | [View Certificate](#)

- NPTEL: Python for Data Science | [View Certificate](#)
- NPTEL: Joy of Computing Using Python | [View Certificate](#)
- 6th Technovation Hackathon (Sharda University) | [View Certificate](#)
- Ethical Hacking at IIT Delhi | [View Certificate](#)
- HP: AI for Beginners | [View Certificate](#)
- TestRigor: AI Driven Test Automation Engineer | [View Certificate](#)

### Extra-Curricular Activities

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- Solved **250+ problems** on LeetCode, GFG and Coding Ninjas.
- Core Member Software Engineering Club - Amity University, Noida
- School Head Girl

Jan 2023 - Present  
2021-2022