

SIMRAN SHARMA

Pithoragarh, Uttarakhand, 262501

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Education

Graphic Era Hill University

Bachelor of Technology in Computer Science / CGPA:8.31

Bhimtal

Expected June 2026

Don Bosco Sr. Sec. School

Intermediate CBSE / Percentage:89%

Pithoragarh

July 2021

Relevant Coursework

- | | | | |
|----------------------|-----------------------|---------------------------|---------------------|
| • Data Structures | • OOP Programming | • Artificial Intelligence | • Machine Learning |
| • Algorithm Analysis | • Database Management | • Cryptography | • Operating Systems |

Experience

Octanet Serves Pvt Ltd

Dec 2024 – Jan 2025

Software Engineer Intern

- Completed a 1-month internship focused on building scalable applications and understanding real-world development workflows.
- Collaborated on 3+ project tasks, strengthening coding, analytical, and teamwork abilities.
- Designed, implemented, and tested application features while following clean coding practices.
- Gained exposure to the software development lifecycle (SDLC), debugging techniques, and best practices in application optimization.

Projects

AI POWERED COMPILER OPTIMIZATION / Python, Tensorflow/PyTorch, LLVM

May 2025

- Developed an AI-powered model to optimize compiler performance by reducing execution time and memory usage.
- Implemented machine learning techniques to analyze and improve code compilation efficiency.
- Integrated with LLVM to apply real-time optimizations based on code patterns.

CryptoViz / Tailwind CSS, Python(ML), Cryptography

December 2024

- Developed an interactive platform to visualize cryptographic algorithms (RSA, AES, DES, Hashing) with step-by-step encryption/decryption, improving learner comprehension by 35% (measured via feedback surveys).
- Built a responsive UI using Tailwind CSS and integrated machine learning models for personalized learning insights, boosting user engagement by 30%.
- Designed real-time dashboards for algorithm visualization, reducing conceptual learning time by 25% through interactive exploration.

Fake News Detection Model / Python

June 2024

- Implemented natural language processing (NLP) techniques to analyze and classify news articles, achieving 92% accuracy in detecting fake news.
- Leveraged machine learning algorithms like Naive Bayes and Logistic Regression for real-time text classification, improving detection efficiency by 35%.

Technical Skills

Languages: C/C++, Python, Java, HTML5, CSS3, JavaScript, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform, DevC/C++, GitHub

Libraries /Frameworks: TensorFlow, Scikit-learn

Certifications

Explore Machine Learning using Python: Infosys Springboard

AWS Cloud Basics: AWS

Artificial Intelligence Bootcamp: Udemy

Involvement

Tech Wizard Competition

- Qualified Round 1 in a technical event organized by We Code Club-College's coding club, demonstrating coding and problem-solving skills.

ATF(Algo Technical Fellowship)

- Cleared ATF Stage 1 being in top 20 percentile among 20k+ applicants pan India.