

# SHIVANSHU AGARWAL

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## Education

### Graphic Era Hill University

Bachelor of Technology in Computer Science

Dehradun, India

Aug 2022 – Present

– **CGPA:** 8.195 / 10

– **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Networks, OOP, DBMS

### Shri Govardhan Saraswati Vidhya Mandir Inter College

Higher Secondary Education – Uttarakhand Board

Uttarakhand, India

2021

– **Percentage:** 81.8%

## Experience

### Salesforce Developer – Agentblazer Champion Program

May 2025 – Jul 2025

SmartBridge + AICTE (Remote)

- Applied **engineering principles** to design, develop, and test scalable Salesforce solutions using **Apex & LWC**.
- Collaborated with **cross-functional stakeholders** to define **user requirements** and align them with product objectives.
- Implemented **CI/CD pipelines**, MLOps workflows, and automated deployment scripts in Linux/Bash, reducing release time by 30%.
- Built real-time analytics dashboards improving **monitoring, observability**, and performance tracking for deployed applications.
- Adopted new tools and industry best practices to enhance system **availability, reliability**, and scalability.

## Projects

### Scalable Virtual Exam Platform – Secure Kiosk Mode

Apr 2025

(C++, Python, Windows API, Distributed Systems)

- Engineered a **distributed, high-availability** exam platform supporting 100+ concurrent users.
- Developed OS-level lockdown using **Windows API** to block network access and system shortcuts, ensuring security.
- Integrated **facial recognition** (92% accuracy) for automated proctoring, reducing misconduct by 95%.
- Designed role-based access controls, achieving zero unauthorized access incidents.

### Automated Attendance System

Apr 2024

(Python, OpenCV, Machine Learning)

- Built a real-time **face recognition system** with 95%+ accuracy, reducing manual errors by 90%.
- Optimized algorithms for scalability to handle 500+ users simultaneously.
- Integrated notification system and backend database for automated reporting and tracking.

### Speech Emotion Recognition System

Nov 2024

(Python, CNN, MFCC)

- Developed a CNN-based model with 88% accuracy for emotion detection from speech.
- Optimized inference speed by 20% and reduced error rate by 15% through hyperparameter tuning.
- Enabled real-time monitoring for mental health applications using NLP techniques.

## Technical Skills

- **Languages:** Python, C++, Java, C, JavaScript, SQL, Bash
- **Frameworks/Tools:** OpenCV, Git, MySQL, Docker, VS Code, Windows API, Jupyter Notebook
- **Concepts:** Data Structures & Algorithms, System Design, Performance Optimization, Monitoring & Observability, Distributed Systems, Agile/Scrum

## Certifications

- Salesforce Developer – Agentblazer Champion Program — SmartBridge & AICTE (Aug 2025)
- AWS Security Fundamentals — Amazon Web Services (Apr 2025)

## Achievements

- 3rd place in university-wide hackathon.
- Winner of multiple coding competitions demonstrating proficiency in **algorithms** and **problem-solving**.