

# Shruti

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## Education

<b>B.Tech in Computer Science(CCVT)</b> UPES Dehradun Minor Degree in Design(User Experience)	2023-2027 SGPA: 8.24
<b>Class XII (CBSE)</b> Sardar Patel Public School	2021-2022 Percentage: 68.5%
<b>Class X (ICSE)</b> St. John's School	2019- 2020 Percentage: 85.5%

## Technical Skills

- **Programming Languages:** C, C++, Java, Python ,Object-Oriented Programming (OOP) ,Data Structures & Algorithms
- **Web Development :** HTML, CSS, JavaScript , MERN Stack ,Node.js , RESTful APIs
- **Databases :** MySQL , SQL Queries , Database Management Systems (DBMS)
- **Cloud & DevOps:** AWS (EC2, S3, IAM, Lambda, DynamoDB) , Docker , Containerization , GitHub , CI/CD Pipelines , Version Control
- **Tools & Technologies:** OpenCV, MS Excel ,Figma ,Linux , Canva, Robotics Programming (Basic)

## Projects

### Fog Model for Fog/No-Fog Detection | Python, Deep Learning, OpenCV

- Implemented a CNN-based deep learning model in Python using OpenCV to classify fog vs no-fog images, achieving **~90% test accuracy** on validation data
- Analyzed classification results using confusion matrix, precision, recall, and accuracy metrics to identify error patterns
- Delivered high-precision fog classification by refining dataset preprocessing and optimizing CNN training parameters

### Food Ordering System | AWS, Lambda, DynamoDB, EC2, S3

- Designed and deployed a **5+** module cloud-based system using AWS EC2, S3, Lambda, Cognito, IAM, DynamoDB
- Implemented secure authentication and RESTful APIs to handle multiple concurrent user requests, ensuring scalability in a cloud-based architecture
- Applied IAM-based role access control to manage **3+** user roles, improving security and authorization flow.

## Internships

### IIT Kanpur, India- Technical Intern

Jun 2025 - Jul 2025

- Worked on an AI/ML-based computer vision project, implementing **2+** deep learning models in Python for image classification tasks
- Assessed model performance across multiple dataset splits using standard evaluation metrics to ensure robustness and generalization
- Validated deep learning models across multiple dataset splits, achieving **~ 90%** overall accuracy and strong precision for fog-class predictions
- Collaborated with **4–6** cross-functional team members to discuss model results, align on dataset improvements, and refine preprocessing strategies, improving overall model reliability

### Sakshar India Foundation- Social Intern

Jun 2024 - Jul 2024

- Facilitated discussions and organized activities among **20+** volunteers, improving collaboration during virtual and in-person sessions

## Certifications

- AWS: Cloud Foundation and Cloud Operations
- AWS Cloud Architect
- ML Foundations

## Achievements

- HackerRank: Gold Badges in C, C++, Python
- Participant, Smart India Hackathon 2024, 2025
- Open Source Contributor

## Leadership & Activities

- Batch Representative, ACM & ACM-W Chapter —represented 100+ students and managed academic communication between students and faculty
- Led and hosted the Distinguished Speaker Program (ACM, ACM-W PRODIGY'24), communicating with speakers, faculty, and 150+ attendees to ensure smooth planning and execution of events
- Open Source Contributors, Google Developer Groups (GDG) member