

# AKSHAT RAI

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## Education

### Graphic Era University, Dehradun

B.Tech in Computer Science & Engineering

2022 - Present

9.08/10 CGPA

### D.S.B International Public School

12<sup>th</sup> C.B.S.E

2021

91.60%

### D.S.B International Public School

10<sup>th</sup> C.B.S.E

2019

93.80%

## Projects

### Driver Sentinel | YOLO, OpenCV, Deep Learning, TensorFlow, Computer Vision

(Oct 2024 - Jan 2025)

- Attained **98%** accuracy in seatbelt and drowsiness detection, lowering accident risks by **70%** with the help of **AI-driven** solutions.
- Enhanced user interaction by **50%** and reduced setup time by **40%** using an optimized Streamlit **dashboard** and streamlined deployment.

### Plant Shield | Deep Learning, TensorFlow, Keras, Streamlit

(May 2024 - July 2024)

- Developed a deep learning system to detect plant diseases with high accuracy and raised the rate of early diagnosis by **30%** leveraging **Convolutional Neural Networks (CNNs)** in **TensorFlow** and **Keras**.
- Released a Streamlit application, resulting in a **25%** boost in agricultural productivity through the ability to identify diseases early.

### Chat Analyzer | Python, Pandas, Matplotlib, NLP

(July 2024 - August 2024)

- Created a chat data **visualization** and **analysis** tool, producing **40%** more insights into user behavior through extensive activity mapping and data visualization.
- Analyzed user **statistics**, timelines, and word clouds, providing better understanding of communication patterns.

### Brush Splash | Python, OpenCV, Computer Vision, Image Processing, Mediapipe

(July 2024 - August 2024)

- Designed an interactive drawing application that incorporates hand gestures and enhanced **engagement** by **20%** by supporting **real-time** erasure and drawing of lines.
- Added the app with **customizable** thickness of brush/eraser and a color palette, enhancing user control and creativity by **35%**.

### Attendance Automation | OpenCV, Firebase, Face Recognition

(Nov 2023 - Jan 2024)

- Engineered a Python program for face recognition with OpenCV, improving attendance accuracy by **95%** with strong face detection even in low-light environments.
- Integrated real-time attendance monitoring into Firebase, enhanced accuracy of attendance records by **40%**.
- Created an easy-to-use Tkinter GUI that decreased data entry time by **30%** and enhanced user efficiency.

## Technical Skills

**Languages:** C, C++(proficient), Java, Python, JavaScript, HTML, CSS, BashScript

**Technologies & Tools:** Frontend Development, DSA, Machine Learning, Deep Learning, Generative AI, Git, GitHub, LangChain, SQL, Linux

## Leadership / Extracurricular

### Club Delegate - Finance and Investment Cell (FIC)

March 2023 – August 2024

- Managed a group of 5-6 members to organize events like Finastra and Stocks Pe Chat, which had over **500+** and **200+** participants respectively. Contributed significantly towards promoting the financial literacy through these workshops.

## Achievements

- Chosen as one of the **top 200 participants** from **53,000 applicants** to participate in the highly prestigious **JPMC Code for <Good>** 2024 event in Bengaluru, reaching the final round of the hackathon.