

Ayush Sharma

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EDUCATION

Bharati Vidyapeeth's College of Engineering, GGSIPU, New Delhi, India CGPA: 8.8
B.Tech. in Information Technology with Minor Specialisation in AIML 2022 – 2026

- **Courses Studied:** Object-Oriented Programming, Database Management Systems, Software Engineering, Operating Systems, Data Structures, Design and Analysis of Algorithm, Artificial Intelligence, Theory of Computation, Computer Networks

Bhatnagar International School, New Delhi, India Percentage: 76
Class 12th 2021–22

Bhatnagar International School, New Delhi, India Percentage: 87
Class 10th 2019–20

TECHNICAL SKILLS

Programming Languages: Java , Python, HTML, CSS, Java Script, Basics of C and C++

Frameworks: Flask, Tensorflow, Pytorch


AI & Machine Learning: Numpy, Pandas, Matplotlib , Scikit-learn

Database Management: MySQL

Version Control: Git, Github, PowerBI, Figma

EXPERIENCE

Internship Training in Data Science July 2024
VeeyoTech Delhi

- **Gained expertise in Python, SQL & Power BI** for data analysis and model evaluation
- **Value Vision** made a house price predictor in this using Python Library Scikit-learn,matplotlib,metric evaluation 

PROJECTS

RefiNet — Python, StreamLit, Pytorch, MSAFN(Custom CNN)  May-June 2025

- This project aims to compress a powerful **image enhancement model (MSAFN)** into a **lightweight student model (LightMSAFN)** using knowledge distillation
- Achieve high **SSIM (0.9792)** and **PSNR (51 dB)** in a compressed model.

V-Secure An Intelligent Data-Driven Model for Intra-Vehicle Communication Python, Flask  Mar 2025

- Developed an intelligent system to detect **DoS, fuzzy, RPM spoofing, and gear spoofing attacks**, achieving a **99% reduction in false positives**.
- Leveraged **7 deep learning** and **3 machine learning models**, **live car hacking news** for real-time threat detection and intrusion prevention.

ReAct-Drive — Python, OpenCV  May 2025

- Built a real-time driver drowsiness and yawning detection system using **OpenCV**, enhancing safety through continuous visual monitoring.
- Integrated **alert mechanisms and Google Maps API** to suggest nearby rest locations, enhancing driver safety through intelligent assistance.

CERTIFICATIONS AND ACHIEVEMENTS

- **Best NSS Volunteer Award , Excelsior Award 2025 , DSA in JAVA- CODING NINJAS**

POSITION OF RESPONSIBILITY

IEEE BVCOE - GAMMA Head, Computer Society(CS) Logistic Head May 2024 - Present

- Worked as an active member in organising team for **WIEHack 5.0**, a highly successful **36 hours hackathon** that attracted more than **1800 students** from India and **31+** countries.
- Organised **Design Verse** for CS as **Logistic head**.