Dhruv Agarwal

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EDUCATION

Bharati Vidyapeeth's College of Engineering, GGSIPU, New Delhi, India *CGPA: 9.156*
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, Web Technologies*

Sachdeva Public School, Pitampura, New Delhi, India *Percentage: 91*
Class 10th *2018–19*

Sachdeva Public School, Pitampura, New Delhi, India *Percentage: 89*
Class 12th *2020–21*

TECHNICAL SKILLS

Languages: Python, HTML, CSS, Basics of Java
Backend and Database: Flask , MySQL
Libraries & Frameworks: Pandas, Numpy, Matplotlib, Seaborn, NLTK, TensorFlow, Keras, Pytorch, Streamlit
Developer Tools: VS Code, Git and GitHub, Canva, PyCharm

EXPERIENCE

Internship Training in Artificial Intelligence and Machine Learning July 2024
Certification By Dell *Delhi*

- **Gained hands-on experience** in Python for data preprocessing, model development and evaluation using various Machine Learning and Deep Learning techniques
- **Developed a Sign Language Prediction model using Deep Learning**, achieving 98% accuracy in recognizing American Sign Language hand gestures

PROJECTS

RefineNet — Python, MSAFN(Custom CNN), Streamlit, Pytorch May.-June. 2025

- **T**his 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 upon validation

ShadowCAM — Python, OpenCV, Pyvirtualcam, HTML, CSS, JavaScript April.-May. 2025

- A real-time video streaming and background manipulation app powered by FastAPI, OpenCV, YOLOv8, and pyvirtualcam.
- This tool detects people in webcam feeds and allows you to apply: **Custom backgrounds, Blur effects, Black backgrounds**

LeafDetect — Python, TensorFlow, Streamlit Nov 2024

- Built a CNN-based model for plant disease detection with **96.3% validation accuracy**.
- Deployed an interactive interface using **Streamlit** for real-time prediction and user interaction.
- Achieved **90%+ classification accuracy**, significantly enhancing automated agricultural diagnostics.

ACHIEVEMENTS

- **Excelsior Award For Academic and Technical Event 2025**

CERTIFICATIONS

- Data Structures and Algorithms in Python, and Machine Learning in Python – Coding Ninjas (2024)

POSITION OF RESPONSIBILITY

IEEE BVCOE - Eta Kappa Nu (HKN) Logistics-Head *May 2024 - Present*

- Logistic head for the IEEE HKN-Etta Kappa Nu Subchapter.

- Led **Innovicon 3.0** as the Logistic Head, a highly successful **2-day event** where teams showcased innovative **software and hardware solutions**, fostering creativity and technical excellence. *April 2025*