

Ayush Sharma

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EDUCATION

Course	College/School	% / CGPA
B. Tech in CSE (2021-2025)	Meerut Institute of Engineering and Technology, Meerut	7.1
Class XII (2021)	Kadam Public School	94
Class X (2019)	Kadam Public School	88.4

EXPERIENCE

- ➔ **Machine Learning Intern, Unified Mentor, Remote** Sep 2024 – Present
- Developed a **Diabetes Detection System** using **machine learning** with **94%** accuracy to enhance early **diagnosis** and **patient care**.
 - Created an interface delivering predictions in **3 seconds**, cutting false positives by **20%** through collaboration with **healthcare analytics**.
 - Technologies Used:** Python, TensorFlow, Keras, Pandas, NumPy, Scikit-learn.
- ➔ **Software Developer, Prodigy Infotech, Remote** July 2024 – Aug 2024
- Engineered a multi-user **real-time chat system** using **Java** and **WebSocket**, contributing over **4000+** lines of code across languages, enhancing communication efficiency for **200+ users** and reducing server response time by **30%**.
 - Technology Used:** Java, Java Swing, WebSocket, Socket Programming, MySQL, JWT.

PROJECTS

- ➔ **Hybrid Leaf Disease Detection | Python, CNN, ViT, TensorFlow/Keras**  Apr 2024 – Present
- Developed a **hybrid leaf disease detection system** with **CNN** and **ViT**, achieving over **98%** accuracy, enabling precise early **diagnosis**, and reducing crop losses by **20%**.
 - Technology Used:** Python, CNN, ViT, TensorFlow/Keras, Deep Learning, Image Processing.
- ➔ **Live Weather Dashboard | Python (Flask/Django), JavaScript**  Jun 2024 – Sep 2024
- Designed an interactive **live weather dashboard** with **Python** and **JavaScript**, delivering real-time updates with **95%** accuracy and enhancing user experience with instant **weather alerts**.
 - Technology Used:** Python (Flask/Django), JavaScript, WebSocket, APIs.
- ➔ **Real-Time Object Measurement System | Python (OpenCV, Matplotlib), Mobile Integration**  Jul 2024 – Aug 2024
- Created a dynamic **real-time object measurement system** with **90%** accuracy using **OpenCV** and **±2mm** precision, supporting **webcam** and mobile input via **IP Webcam**.
 - Technology Used:** Python (OpenCV, Matplotlib, NumPy), IP Webcam, Contour Detection, Mobile Camera Integration.

TECHNICAL SKILLS

- ➔ **Languages:** Java, C, C++, Python, JavaScript

➔ **DB language:** SQL

➔ **Frameworks:** Spring, Angular, React, MongoDB, Express, Node.js

➔ **Familiar with:** AWS, Linux, Machine Learning
- ➔ **IT Constructs:** DS and Algorithms, OOPS, OS and DBMS

➔ **Development tools:** Microsoft Visual Studio, Git/GitHub, PyCharm