

Ananya Verma

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Technical Skills

Languages and DataBases: Python, SQL

Systems & Networking: Unix/Linux, TCP/IP, Distributed Systems

Libraries & Tools: Git/GitHub, NumPy, Pandas, Scikit-Learn, TensorFlow, PyTorch, OpenCV, FastAPI, Flask

Cloud & MLOps: AWS, Azure, Docker, CI/CD, MLflow

Concepts: Machine Learning, Deep Learning, NLP, Information Retrieval, Data Structures & Algorithms

Visualization: Matplotlib, Seaborn, EDA, Dashboards

Experience/Projects

Oasis Infobyte

Feb 2024 - March 2024

Python Developer

Remote

- Built a **Voice Assistant** using **speech recognition** and **pyttsx3**
- Implemented a **Tkinter-based BMI Calculator** and **Secure Password Generator**
- Applied **OOP, modular programming**; used **Git** for version control

SkillCraft Technology

Sep 2024 – Oct 2024

Machine Learning Developer

Remote

- Developed a **House Price Prediction model** using **Linear Regression**.
- Created **Customer Segmentation** with **K-Means** and **Elbow Method**
- Built an **SVM-based Image Classifier** for **cats vs dogs**
- Engineered a **Real-Time Hand Gesture Recognition system** using **OpenCV**

Atharvo

Jan 2024 – Feb 2024

Machine Learning Developer

Remote

- Constructed and deployed an **end-to-end ML pipeline** with **supervised** and **unsupervised learning**
- Utilized **NumPy**, **Pandas**, **Scikit-learn**, and **visualization libraries** for model analysis

Personal Projects

AI Driven Resume Screening System: | Machine Learning , NLP , Python

Jan 2025 - Feb 2025

- Created an **AI tool to parse and evaluate resumes** based on job descriptions
- Achieved **85% accuracy** and **reduced screening time by 50%**
- Applied **information retrieval** and served models through **FastAPI**

Smart Traffic Violation Detection System | YOLO, Computer Vision, Deep Learning

- Developed an AI-powered system for real-time **traffic violation detection** using **YOLOv4 & SSD**.
- Built a **Flask dashboard** integrating **OpenCV** and **PyTorch** for live monitoring
- **Reduced manual enforcement** effort by **60%**

Distributed Chat System with Encryption | Socket Programming, Python, TCP/IP

- Created a **multithreaded chat application** using **TCP sockets** and **AES encryption**
- Simulated **secure distributed messaging** in a **Linux-based environment**

Fault-Tolerant URL Shortener | Flask, Redis, Docker

- Engineered a **scalable URL shortener** using **Redis** and **Docker containers**
- Implemented **load balancing** and **failover handling** for system resilience

Leadership & Achievements

AI/ML Lead - MLSA-GBU:

Directed AI/ML initiatives including workshops, mentorship, and collaborative R&D.

Core Member - HackFed GBU:

Planned and executed university-wide hackathons, coding events, and tech talks.

500+ DSA Problems Solved:

Demonstrated strong algorithmic thinking in recursion, graphs, trees, and dynamic programming.

Education

Gautam Buddha University

Bachelor of Technology in Artificial Intelligence

Sep 2022 – Jun 2026

Gr.Noida, Uttar Pradesh