

# Tarun Srivastava

Bachelor of Technology-Artificial Intelligence and Machine Learning (B.Tech-AIML)

Tech enthusiast specializing in AI/ML, IoT, and Cybersecurity, aiming to apply strong analytical and problem-solving skills to drive innovation, enhance efficiency, and achieve long-term organizational success.



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[Tarun Srivastava](#)



[Portfolio](#)

## EDUCATION

**B. Tech - AIML | 76.98%**

A.K.T.U, Lucknow

2022-2026

**Higher Secondary | 58.2%**

Kendriya Vidyalaya Rail Parisar, Gonda

C.B.S.E. Board

2022

**Senior Secondary | 65.2%**

Kendriya Vidyalaya Rail Parisar, Gonda

C.B.S.E. Board

2020

## EXPERIENCE/INTERNSHIP

**Cyber Security Intern - CDAC**

06/2025-08/2025

CDAC is a premier R&D organization in India focused on high-performance computing, cybersecurity, AI, and advanced IT solutions

-**ZTNA Framework:** Developed Zero Trust Network Access with firewall policies and access control using VirtualBox.

**Research Intern – IIT Delhi**

12/2024-03/2024

IIT Delhi is a world-class technical institute focused on advanced research and engineering education.

-**Neural Networks & NLP:** Learned basics of neural networks, NLP, symbolic execution, and S.A.T/S.M.T solvers using Python.

## SEMINARS / WORKSHOPS

-Completed the 50 hours workshop on "**Machine Learning foundation course**" from Electrocus Solution. (2024)

-Attended a 3-days workshop on "**How Artificial Intelligence is used in Civil Engineering**" at IIT Kanpur. (2024)

-Attended a two-day workshop on "**Ethical Hacking**" at IIT Kanpur. (2024)

-Attended a 10-days Winter School on "**Formal Verification & Program Synthesis**" at IIT Delhi.

## TECH SKILLS

**Programming:** Python, C.

**ML Libraries:** NumPy, Pandas, Matplotlib, OpenCV.

**Natural Language Processing:** S.M.T Solver, S.A.T Solver.

**Generative AI:** Prompt Engineering, GPT based LLM.

## ACADEMIC PROJECTS

### SMART MIRROR

-Interactive mirror displaying calendar, weather, news, and using human recognition, built with Tkinter, Raspberry Pi, and ultrasonic sensor.

### AUTOMATIC MOPPING ROBOT

-**IoT Robotic Floor Cleaner:** Autonomous multi-surface cleaning with smart mopping, sensor-based navigation, and mobile app control.

### SECURING NETWORK WITH MACHINE LEARNING

-**Securing Network With ML:** Developed a lightweight, adaptive security model for Network security with real-time threat detection, prevention, and performance visualization.

## ACHIEVEMENTS / EXTRA CURRICULARS

### Research Publication:

-Smart Mirror using Raspberry Pi – National Conference (Published Under the Proceedings)

-Optimizing DNS-based DDos Attack Detection (Under Evaluation).

-Hands-Free Eye-Controlled Navigation System for Disabilities Using Real-Time MediaPipe and PyAutoGUI Tracking (Under Evaluation).

-A Reputation-Centric, Host-Based Threat Detection and Response System for Usable Threat Analysis (Under Evaluation).

-Framework of the Zero Trust Network Access (ZTNA) Implementation at the Organizational Level (Under Evaluation).

### Jawaharlal Nehru National Science, Mathematics & Environment Exhibition (2019-20).

Secured 3rd rank in Jawaharlal Nehru National Science, Mathematics & Environment Exhibition.

### K.V.S. NATIONAL INTEGRATION CAMP (2019-20).

Participated in Debate Competition at K.V.S. National Integration Camp

## SOFT SKILLS

Adaptability and Flexibility  
Networking

Leadership  
Team Work