

# Yash Jain

+91 9870604468 | [perfectjainyash@gmail.com](mailto:perfectjainyash@gmail.com) | DOB: 01/01/2003  
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## PROFILE SUMMARY

Aspiring MCA graduate and Full-Stack Developer with expertise in Artificial Intelligence, Machine Learning, and Generative AI. Skilled in Python, Java, SQL, and modern web technologies with hands-on experience in building AI/ML models, deploying MLOps pipelines, and developing end-to-end software solutions. Strong foundation in cybersecurity, networking, and database management, with proven ability to deliver scalable and secure projects in dynamic environments.

## TECHNICAL SKILLS

**Programming:** Python, Java

**Frontend / Web:** ReactJS, HTML, CSS, JavaScript

**AI/ML:** PyTorch, Scikit-learn, Pandas, NumPy

**Generative AI:** LLMs, Prompt Engineering

**Software & MLOps:** FastAPI, Docker, Git, VS Code

**Databases:** SQL

**Cybersecurity & Networking:** Network Security, Cisco Packet Tracer

**Core Concepts:** OOP, DBMS, Supervised & Unsupervised Learning

## INTERNSHIP

### Intern

Jun 2025 – Jul 2025

*Virtual Labs, IIT Roorkee*

- Designed and documented DBMS experiments for virtual lab environments.
- Simulated and visualized database operations using web technologies.
- Prepared detailed theory, objectives, procedures, and assessments.
- Collaborated with researchers and faculty to ensure educational accuracy.

### Cyber Security Analyst

May 2025 – Jul 2025

*CYNDIA CYBERSPACE LLP*

- Researched emerging cybersecurity threats and modern defense frameworks.
- Authored technical blogs and collaborated with industry experts.
- Provided research-driven insights for proactive cyber defense strategies.

### Intern

Jul 2024 – Aug 2024

*Virtual Labs, IIT Roorkee*

- Designed and documented Client-Server Architecture experiment for virtual lab environments.
- Simulated and visualized request-response flow and data packet movement using web technologies.
- Prepared detailed theory, objectives, procedures, and assessments.
- Collaborated with researchers and faculty to ensure educational accuracy.

## PROJECTS

### SmartLog AI – Log Classification System

BERT, Scikit-learn, NumPy, Python, Machine Learning, LLMs

- Developed an AI-based log classification system to categorize and manage project logs with 92% accuracy.
- Implemented supervised learning models for automated log labeling and anomaly detection.

### BugScope AI – Automated Bug Localization System

Android, Machine Learning, GitHub API

- Built an AI-driven system to identify probable buggy files in Android applications using issue text and UI behavior analysis.
- Enabled real-time GitHub integration for automated issue analysis and high-accuracy bug localization.

### CodeVerse – Full Stack Blogging Platform

HTML, CSS, JavaScript, Backend Frameworks

- Designed and developed a full-stack blogging platform with user authentication and interactive code snippets.
- Implemented secure login, content management, and responsive UI for enhanced user experience.

### Virtual DB – Database Simulation System

DBMS Concepts, Web Technologies

- Created a simulated database environment for learning and testing SQL queries without installing a physical database.
- Enabled interactive query execution and visualization for educational use cases.

## Arduino-based Hand Gesture Recognition

Arduino, Sensors, Machine Learning

- Developed a real-time hand gesture recognition system using Arduino sensors and machine learning algorithms.
- Processed sensor data to accurately classify gestures for human-computer interaction applications.

## Campus Network using Cisco Packet Tracer

Cisco Packet Tracer, Networking, VLANs

- Designed and simulated a complete campus network with routers, switches, and VLAN configurations.
- Implemented secure and efficient network topology following real-world networking standards.

## EDUCATION

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### Teerthanker Mahaveer University, Moradabad, Uttar Pradesh

2024 – 2026

*Master of Computer Applications*

- CGPA (Till 2<sup>nd</sup> Semester): 9.37 / 10.0

### Quantum University, Roorkee, Uttarakhand

2021 – 2024

*Bachelor of Computer Applications*

- CGPA : 8.44 / 10.0

### Sarvagya Public School, Roorkee, Uttarakhand

2021

*Class XII (CBSE)*

- Percentage: 92%

### Sarvagya Public School, Roorkee, Uttarakhand

2019

*Class X (CBSE)*

- Percentage: 86.8%

## CERTIFICATIONS

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### Power Programmer Virtual Experience Program – Infosys

Python Essentials 2 – Cisco

CS205 – Building with Artificial Intelligence – Saylor Academy

CS406 – Information Security – Saylor Academy

Certificate Course on Robotic Process Automation (RPA) – Honeywell & ICT Academy

Hack12 (Hackathon) – Quantum University

## ACHIEVEMENTS

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### CODEX – Technical Club, TMU

2024 – 2025

*President*

- Led club activities, coordinated workshops, and guided members in coding and AI/ML projects.

### Internal Hackathon, TMU

Feb 2025

*Core Member – Organizer*

- Organized and managed the internal hackathon, including event planning, judging, and participant coordination.

### Cricket Team Head

2022 – 2023

*Leadership & Team Management*

- Managed team operations, coordinated training sessions, organized matches, and ensured overall team performance.

## PUBLICATIONS

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**The Silent Hacker: Understanding Fileless Malware and How It Bypasses Modern Defenses** – Cyber Unfolded, June 2025

**The Role of Programming Languages in Modern Cyber Attacks: Weaponization and Defense in 2025** – Cyber Unfolded, May 2025