

Tanmya Srivastava

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EDUCATION

Vellore Institute of Technology, Bhopal

Bachelor of Technology,

School of Computer Science and Engineering

CGPA: 7.88/10

Bhopal, Madhya Pradesh

Oct 2022 – Present

TECHNICAL SKILLS

Languages: Java, JavaScript (Browser, Node.js) (Ongoing)

Framework: Spring, Spring Boot

Database: SQL, MySQL

Tools and Technologies: RESTful APIs, Git, Git Bash, VS Code

TECHNICAL PROJECTS

Terabot | IoT, ML, Flask, React js, GitHub

March 2025 – August

- Developed and deployed an IoT-based rover integrated with soil sensors and ML models, improving assessment accuracy by 60%.
- Model accuracy by applying Min-Max normalization and PCA for optimal feature reduction was achieved by 90%.
- Built a real-time Flask API and React.js dashboard for automated visualization, enhancing decision-making speed by 20%.

MongoDB Spring Boot Project | Java, Spring Boot, MongoDB, RESTful APIs

Aug 2024 – Apr 2025

- Developed RESTful APIs to perform CRUD operations on MongoDB using Spring Boot and Java.
- Implemented both MongoRepository and MongoTemplate approaches for flexible data access and optimized query performance.
- Designed modular architecture for Create, Read, Update, and Delete endpoints with proper exception handling.
- Tested endpoints via Postman ensuring seamless database integration and stable API responses.

CERTIFICATIONS

Frontend and Backend Development — IBM (Coursera)

September 2023

Certified Ethical Hacker (CEH) — EC-Council

December 2024

EXTRACURRICULAR ACTIVITIES

VIT Bhopal Data Science Club — PR and Outreach Member

June 2024 - May 2025

- Strategized and coordinated over 20 events, increasing member participation and engagement by 50% through innovative programming.
- Partnered with faculty and industry experts to organize high-impact workshops and guest lectures, elevating the club's academic standing.
- Develop and execute communication plans to ensure consistent messaging across all platforms
- Address and resolve public relations issues that could impact the organization's reputation.

Close to My Heart Foundation (NGO) — Volunteer

May 2025 - June 2025

- Launched a social media campaign to promote environmental awareness, reaching 1,000+ individuals with engaging content and inspiring action towards a sustainable lifestyle.
- Supported humanitarian initiatives such as blood donation, food distribution, and animal relief programs.
- Assisted in outreach activities for children and underprivileged groups to promote social inclusion.

Health Hackathon — VIT Bhopal in collaboration with John Hopkins University (USA)

March 2025

- Selected among 5000+ participants and developed an affordable prosthetic hand using Machine Learning and IoT to restore motor functions for amputees.
- Integrated EMG, flex, and force sensors with Arduino Mega to capture muscle signals and control servo-based hand movement.
- Implemented KNN model for real-time gesture recognition, achieving accurate motion prediction and smooth actuation.