Tanmya Srivastava

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github.com/tanmya9

EDUCATION

Vellore Institue of Technology   Bhopal, Madhya Pradesh
Bachelor of Technology,   Oct 2022 – Present

School of Computer Science and Engineering
CGPA: 7.92/10

TECHNICAL SKILLS

Languages: Java, JavaScript (Browser, Node.js)
Framework: Spring, REST APIs Spring Boot, Spring MVC, Hibernate
Database: SQL, MySQL, MongoDB
Developer Tools: VS Code, Git/GitHub, Postman

TECHNICAL PROJECTS

E-Commerce Management System | *Spring Boot, MySQL, Hibernate, JSP, Maven*

- Engineered a full-stack **Spring Boot** web application supporting product listings, secure **user authentication**, and dynamic cart operations, reducing page load time by **25%**.
- Integrated **Hibernate ORM** for **automated schema** creation and entity–table mapping, cutting manual database configuration time by **80%**.
- Designed modular Service and **DAO layers**, improving backend reusability by 40% and reducing maintenance time during feature expansion.

MongoDB Spring Boot CRUD Application | *Java, Spring Boot, MongoDB, RESTful APIs*

- Built and deployed **RESTful API** endpoints enabling seamless **CRUD** operations, improving data retrieval efficiency by **35%**.
- Implemented **MongoRepository** and **MongoTemplate** for flexible data access and query optimization, reducing database latency by **30%**.
- Applied a 3-tier architecture (**Controller–Service–Repository**) with custom exception handling and validation, boosting API stability to 99% up-time in tests.

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

- Designed and deployed an **IoT**-based rover integrated with soil sensors and ML models to analyze soil quality, improving prediction accuracy by **60%**.
- Enhanced ML performance and **PCA** for dimensionality reduction, achieving **90%** accuracy in soil classification.
- Built a **Flask API** and **React.js** dashboard for real-time visualization, increasing data processing and decision-making speed by **20%**.

CERTIFICATIONS

Certified Ethical Hacker (CEH) — *EC-Council*   Dec 2024

EXTRACURRICULAR ACTIVITIES

Health Hackathon — *VIT Bhopal x John Hopkins University, USA*   Mar 2025
- Developed a low-cost prosthetic hand powered by **Machine Learning** and IoT to assist amputees, improving motion precision by **70%**.
- Integrated EMG, flex, and force sensors with Arduino Mega, enabling muscle-signal-based control of servo motors, enhancing response accuracy by **85%**.

VIT Bhopal Data Science Club — *PR and Outreach Member*   Jun 2024 - May 2025
- Organized and promoted 20+ technical events, increasing member engagement by 50% through strategic outreach.
- Partnered with 10+ faculty mentors and industry professionals to organize workshops, expanding club visibility across 3 departments.

Close to My Heart Foundation (NGO) — *Volunteer*   May 2025 - Jun 2025
- Launched an environmental awareness campaign reaching 1,000+ individuals through creative social media content.
- Supported 5+ humanitarian initiatives including blood donation, food drives, benefiting over 300 individuals.