

TANMAY TRIPATHI

Software Engineer. Noida, 201303, Uttar Pradesh.

9170770361

iamtanmay.0101@gmail.com

Linkedin

GitHub

LeetCode

Google Scholar

Technical Skills

Programming Languages & Concepts: Java, Python, Golang, Object-Oriented Programming.

Frameworks & Libraries: Spring Boot, Machine Learning, Natural Language Processing (NLP).

Tools & Technologies: Linux(Ubuntu), AWS, Docker, Git, GitHub, SQL, Raspberry Pi, Postgresql.

Development Methodologies & Practices: Agile, Troubleshooting/Debugging, Microservice.

Courses: Data Structures and Algorithm, Operating System, Relational Database, Deep Learning.

Experience

Kelly Technologies

February 2025 – Present

SDE - Software Developer Intern

Noida, Uttar Pradesh

- Reduced transaction processing time by 30% and improved accuracy across 10K+ daily records by developing reconciliation logic using Go and AWS Lambda.
- Enhanced system performance, scalability by building modular OOP-based REST APIs for backoffice and mobile apps.
- Enabled real-time analytics, production-grade reporting by integrating Adobe analytics into digital goods microservices.
- Boosted throughput by 40% and reduced server load by implementing asynchronous processing with AWS SQS/SNS and Multithreading.

GeeksforGeeks

January 2025 – February 2025

DSA Mentor Intern

Noida, Uttar Pradesh

- Mentored 100+ students in complex data structures and object-oriented design patterns, conducting targeted workshops to enhance engagement and comprehension of advanced programming concepts.

Indian Institute of Information Technology

June 2023 – December 2024

Machine Learning Intern

Lucknow, Uttar Pradesh

- Automated real-time IoT data collection for paddy fields by scripting Raspberry Pi devices with Python.
- Improved model training and decision-making by 10% through clustering-based data validation testbeds.
- Achieved 5% accuracy gain and 20% communication overhead reduction by implementing Federated Learning.

Academic Projects

Kidney Disease Detection | [Link](#)

- Attained 70% accuracy in tumor classification by designing a VGG16-based ML pipeline.
- Deployed a Flask web app with CI/CD using Docker, GitHub Actions, and AWS infrastructure.

Blogging Platform | [Link](#)

- Crafted a Spring Boot application with MySQL JWT, improving API response time by 15% through RESTful API.
- Deployed the microservice on AWS using Docker, achieving **99%** uptime via CI/CD pipelines.

Aawaz | Hackathon Project | [Link](#)

- Decreased data retrieval time by 4% by leading the development of an SQL-backed desktop application.
- Integrated an 84%-accurate perceptron classifier with optimized app-server communication via HTTP.

Achievements

- Published "**Communication-Efficient Federated Learning for Real-time Applications in Edge Networks**".
- Published "**Enhancing Edge-based Cardiovascular Diagnosis through Federated Learning and IoT**".
- Won **First Prize** at MUJ HackX **Hackathon** (Oct 2023) for an AI-powered dermatoscope app.
- Solved over **600** DSA problems, earning **8** badges and a **LeetCode Knight** with max rating of **1,965** (Top **3%**).
- Secured **First Place** in a competitive coding event on HackerRank, demonstrating strong algorithmic skills.
- Consistently awarded the Dean's List excellence Award for three years (2nd to 4th year) as **Branch Topper**.
- Achieved a global rank of **842** at LeetCode Biweekly Contest 145.
- Achieved a global rank of **71** at LeetCode Weekly Contest 438.

Education

Manipal University

Oct. 2021 – Jul 2025

B.Tech Computer Science Information Technology

9.2 cgpa