

# TANISHQ KUMAR TRIPATHI

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## SUMMARY

Passionate and detail-oriented full-stack developer with hands-on experience in Java backend, RESTful APIs, and AI/ML integration. Skilled in building scalable, user-focused applications using Spring Boot, React, and MySQL. Enthusiastic about solving real-world challenges through innovative and efficient code.

## PROJECTS

### Fit India: AI-Based Calorie Tracker

An intelligent calorie-tracking application where users can upload food images to get estimated calories.

- Developed using Spring Boot (backend), MySQL (database), and integrated with an AI model for food recognition.
- Implemented a REST API for image upload and calorie prediction; average response time under 1 second.
- Image classification model achieved 70–90% accuracy across various Indian food datasets.
- Handled image preprocessing, API security, and user history tracking.
- Designed the backend for scalability, supporting concurrent requests with low latency.

### Chat Application (Java Sockets + Swing)

A cross-platform, real-time chat application built with Java Socket Programming and a GUI using Swing.

- Supported peer-to-peer messaging, private chats, and status updates.
- Ensured 0% message loss and latency below 1 second during testing with multiple clients.
- Focused on multi-threading and synchronization to handle simultaneous user sessions.
- Implemented client-server architecture with clean modular design.

### Cricket Info Platform (Spring Boot + AngularJS)

A dynamic cricket score web app showing real-time match updates using Spring Boot and MySQL.

- Used Jsoup for scraping live data every 10 seconds from sports websites.
- Implemented scheduled background tasks in the backend using Spring Scheduler.
- Stored match data in MySQL and displayed results through Angular frontend in a tabular format.
- Ensured data consistency with error handling for downtime and scraping failures.

### Stream App (Video Streaming Platform)

Developed a video-on-demand platform with a React frontend and Spring Boot backend.

- Used HLS (HTTP Live Streaming) protocol for adaptive bitrate streaming to reduce buffering.
- Achieved <1% buffering rate during load testing and ensured 0% frame drop on stable networks.
- Designed backend APIs for video upload, metadata handling, playback control, and user sessions.

Focused on RESTful API design, file chunking, and efficient content delivery.

## SKILLS

Languages: Java, Python, SQL

Frontend: HTML, CSS, JavaScript, React, Bootstrap

Backend & Tools: Spring Boot, Hibernate, REST API, JPA, Git, Agile

Database: MySQL

AI/ML: Natural Language Processing (NLP), Deep Learning, Generative AI

## INTERNSHIPS AND ACHIEVEMENTS

### Deloitte Data Analytics Virtual Internship – Forage

(June 2025)

Completed a hands-on simulation involving data cleaning, visualization, and forensic analysis techniques used in real Deloitte projects. Gained practical experience in analytical reasoning and business intelligence tools.

**Smart India Hackathon Finalist**

(2023 & 2024)

Selected among top teams in Round 2 of India's largest innovation competition. Contributed as a backend developer, solving real-world problems using Spring Boot APIs and MySQL, showcasing ability to work under deadlines and innovate in teams.

**Academic Excellence Award – Sage University**

(2024)

Recognized for consistently outstanding academic performance and technical contributions across multiple semesters in the Compute Science department.

**GeeksForGeeks Hackathon – Team Lead**

(2023)

Led a 4-member team to develop an agriculture-based tech solution. Integrated a Dialogflow-powered chatbot with 85% accuracy to assist farmers. Managed project planning, backend integration, and deployment during the 48-hour hackathon.

**AWS Virtual Internship**

(2022)

Completed two foundational programs:

- AWS Cloud Foundations – Gained essential cloud computing knowledge, including EC2, S3, and IAM.
- AWS Machine Learning Foundations – Understood core ML services such as SageMaker, model deployment, and training workflows.

- TECHNICAL CERTIFICATIONS**
- Java Programming – GeeksForGeeks, NPTEL
  - Python Programming – NPTEL
  - Data Structures & Algorithms – Apna College
  - Machine Learning & Deep Learning – Kaggle, NPTEL
  - Generative AI – GeeksForGeeks
  - Deloitte Data Analytics Simulation – Forage

EDUCATION	
<b>Bachelor of Technology (B.Tech) in Computer Science</b> Sage University, Indore CGPA: 8.3 / 10	2021 - 2025
<b>Senior Secondary (CBSE – Class 12)</b> Christu Jyoti Convent School, Ujjain CGPA: 8.8 / 10	2020 – 2021
<b>Secondary (CBSE – Class 10)</b> Christu Jyoti Convent School, Ujjain CGPA: 8.8 / 10	2018 – 2019