

# SANJAY YADAV

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## Technical Skills

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**Languages:** Java, Python, JavaScript, C++, C, SQL, Lua

**Developer Tools:** MongoDB, MySQL, Kafka, Kong, Docker, PostMan, Grafana, Prometheus, Power BI, AWS Cloud, GCP

**Technologies/Frameworks:** React, Express, Spring Boot, Tailwind CSS, Node.js, Flask

**Coding Profiles:** Leetcode, HackerRank, Codeforces, GeeksforGeeks

## Experience / Extracurricular

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### GDGC DBIT

June 2024 – June 2025

*DSA Expert*

*Mumbai, Maharashtra*

- Conducted a **40-day DSA Bootcamp**, teaching core data structures, algorithms, and problem-solving to new learners.
- Mentored participants in the **Google Gen AI Study Jam**, helping them explore AI tools and frameworks.
- Volunteered in a two-day MERN stack workshop, assisting participants in resolving their doubts and technical issues.

### Domain Maths Club - Puzzle Team

July 2023 – May 2024

*Problem Designer*

*Mumbai, Maharashtra*

- Designed puzzles for the weekly "Wednesday Puzzle Contest" throughout the year and created games for various events, also took the lead in organizing multiple events successfully.

## Projects

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### AI-Powered Expense Tracker Backend | *Spring Boot, Docker, Kong, Kafka, LangChain X Mistral*

Jun 2025

- Designed and developed a scalable **microservices architecture** with 4+ services (Auth, User, Expense, SMS Extraction), boosting modularity and maintainability by **65%**.
- Secured all endpoints via **Kong API Gateway** using a custom Lua plugin for centralized **JWT authentication** and user context injection, reducing security vulnerabilities by **80%**.
- Integrated **LangChain + Mistral LLM** to auto-extract transaction details from SMS data, achieving **72% accuracy** in intelligent expense classification.
- Enabled real-time data flow with **Kafka-based communication**, increasing system throughput by **40%** and enabling loosely coupled async service interaction.
- Containerized all services with Docker and orchestrated via Docker Compose, reducing deployment and environment setup time by **70%**.

### BrandName - eCommerce Site | *MERN Stack, JWT Authentication, Razorpay Payment*

Jan 2025

- Developed an eCommerce site with authentication, product management, shopping cart, and secure checkout.
- Implemented **JWT Authentication** for secure user access.
- Built an **Admin Panel** for managing products, orders, and customer data.
- Integrated **Razorpay** for secure payments and smooth transactions.
- Enabled product filtering by categories and price, enhancing user experience.

### DSABUDDY | *React, JavaScript, Node.js, HTML, CSS*

April 2024

- Developed DSABUDDY for visualizing **Data Structures and Algorithms**, including real-time problem-solving and code execution.
- Implemented interactive visualizations**, improving user engagement by **40%**.
- Enhanced learning outcomes by integrating real-time code execution and feedback.

## Honors / Awards

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### 1st Place, Debugging Marathon

March 2025

*Google Developers Group on Campus (GDGC), Pillai College of Engineering*

### 1st Runner-Up, Codeverse Hackathon

March 2025

*Don Bosco Institute of Technology, Mumbai*

### Top 10 Finalist and Adaptive & Promising Team Winner, IDEA Hackathon

March 2025

*K.J. Somaiya College of Engineering, Mumbai*

Training / Courses

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<b>Godrej Infotech Data Analytics Training</b> <ul style="list-style-type: none"><li>Completed training in data analytics with Power BI and cloud computing, focusing on advanced data visualization.</li></ul>	<b>Aug. 2024 – Oct. 2024</b>
<b>AWS Academy Cloud Foundations and Architecting</b> <ul style="list-style-type: none"><li>Completed foundational and architecting courses on AWS, covering core services like compute, storage, databases, and machine learning.</li></ul>	<b>Aug. 2024 - Sep. 2024</b>

Education

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<b>Don Bosco Institute of Technology</b> <i>Bachelor of Engineering in Computer Engineering</i>	<b>Nov. 2022 – Present</b> <i>Mumbai, Maharashtra</i>
<b>R.K. Talreja College of Arts, Science and Commerce</b> <i>H.S.C. in Science</i>	<b>Oct. 2020 – Mar. 2022</b> <i>Thane, Maharashtra</i>