SANJAY YADAV

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Technical Skills

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

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

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

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

Godrej Infotech Data Analytics Training   **Aug. 2024 – Oct. 2024**
- Completed training in data analytics with Power BI and cloud computing, focusing on advanced data visualization.

AWS Academy Cloud Foundations and Architecting   **Aug. 2024 - Sep. 2024**
- Completed foundational and architecting courses on AWS, covering core services like compute, storage, databases, and machine learning.

Education

Don Bosco Institute of Technology   **Nov. 2022 – Present**
Bachelor of Engineering in Computer Engineering   *Mumbai, Maharashtra*

R.K. Talreja College of Arts, Science and Commerce   **Oct. 2020 – Mar. 2022**
H.S.C. in Science   *Thane, Maharashtra*