



# Ansh Kumar

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Email

GitHub

LinkedIn

LeetCode

Portfolio

## Summary

Computer Science undergraduate with experience in full-stack development, machine learning, and software engineering. Skilled in building scalable web applications using React, TypeScript, Python, FastAPI, PostgreSQL, and modern development tools. Strong foundation in Data Structures & Algorithms, object-oriented programming, and system design with hands-on experience and contributing to real-world software projects.

## Education

Jaypee Institute of Information Technology (JIIT), Noida — B.Tech in CSE  
CGPA: 7.0 / 10

2023 – Present

St. Dominic Savio School, Lucknow, Uttar Pradesh — Class XII (ICSE)  
Percentage: 88%

2022

## Technical Skills

- **Programming Languages:** C++, Python, JavaScript, TypeScript, SQL
- **Frontend:** React, Next.js, HTML, CSS, Tailwind CSS
- **Backend:** FastAPI, Node.js, REST APIs
- **Databases:** PostgreSQL, MongoDB, MySQL
- **Core CS:** DSA, OOP, OS, DBMS, Computer Networks
- **AI/ML:** Scikit-learn, Pandas, NumPy
- **Tools:** Git, GitHub, VS Code, Figma, Streamlit

## Experience

Data Science Intern — The Developers Arena

Jan 2026 – Feb 2026

- Performed data cleaning, preprocessing, and transformation on real-world datasets.
- Built predictive machine learning models and evaluated performance using appropriate metrics.
- Conducted exploratory data analysis to identify trends, patterns, and actionable insights.

## Projects

FraudLens — Credit Card Fraud Detection System ([Demo](#) | [GitHub](#))

Python, Pandas, Scikit-learn, Streamlit

- Built a fraud detection system on 1.29M+ transactions, engineering 18 features and handling class imbalance with SMOTE.
- Trained Logistic Regression, Decision Tree, Random Forest, and XGBoost models, achieving 99.43% ROC-AUC and 99% recall.
- Developed a Streamlit dashboard for real-time and batch fraud analysis with role-based access control.

SmartGym AI — AI-Powered Fitness Platform ([Demo](#) | [GitHub](#))

React, TypeScript, PostgreSQL, MediaPipe

- Built a full-stack AI fitness platform with 139 APIs, 33 PostgreSQL entities, and 92 React components for workout tracking and exercise analytics.
- Developed 9 MediaPipe-based exercise analyzers using 110K+ pose samples, achieving up to 99.58% accuracy.
- Implemented real-time exercise analysis with WebSockets, Python pose processing, JWT authentication, and role-based access control.

## Certifications & Achievements

- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional.
- Solved 200+ DSA problems across LeetCode and competitive programming platforms.
- Achieved a 1254 rating on CodeChef. ([CodeChef profile](#)).