# Aditya Agnihotri

#### ASPIRING SOFTWARE ENGINEER

#### Contact

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<u>LinkedIn</u>

<u>Portfolio</u>

<u>GitHub</u>

# Professional Summary

Aspiring Software Engineer and B.Tech Computer Science (AI & ML) student with experience in developing backend microservices, and MLOps pipelines. Skilled in Node.js, Express.js, FastAPI, Docker, and CI/CD workflows. Capable of designing scalable systems, deploying containerized applications, and applying machine learning in real-world projects.

### **Projects**

#### YouTube Backend Clone | Backend Developer

Jul 2025 - August 2025 | (Node.js, Express.js, MongoDB, JWT, Multer, Cloudinary)

- Built a scalable backend API for a YouTube-like platform with features for authentication, video management, and subscriptions.
- Implemented JWT-based authentication with secure HTTP-only cookies and password hashing via bcrypt.
- · Developed APIs for user profile updates, video uploads, view tracking, and publishing status control.
- Integrated Multer for file uploads and Cloudinary for cloud media storage, ensuring efficient file handling.
- Designed a modular API structure with consistent error handling and response formatting.
- Applied CORS configuration and environment-based variables for secure deployment.

#### **User Authentication System |** Backend Developer

Jul 2025 - Jul 2025 | (Node.js, Express.js, JWT, bcrypt, MySQL)

- · Built modular RESTful APIs for login, registration, and protected routes.
- · Implemented role-based access, JWT authentication, and password encryption (bcrypt).
- Created production-ready API documentation for easy integration into larger systems.

#### End-to-End House Price Prediction System | MLOps Engineer

May 2025 - Jun 2025 | (Python, FastAPI, Docker, DVC, MLflow, Scikit-learn)

- Developed a regression model pipeline for predicting house prices.
- Used DVC for data versioning and MLflow for experiment tracking.
- Created and deployed a containerized FastAPI inference service with Docker.
- · Automated training and deployment workflows with GitHub Actions.

# Academic History

# **B.Tech, Computer Science (AI & ML Specialization)** | Sep 2023 - Present Galgotias University, Greater Noida, India — GPA: 7.87

Coursework: Computer Organization & Architecture, Data Structures, Operating Systems,

- Coursework: Computer Organization & Architecture, Data Structures, Operating Systems,
   Object-Oriented Programming.
- Applied AI/ML concepts in hands-on projects using Docker, MLflow, and FastAPI.

## Technical Skills

- Languages: Python, Java, JavaScript
- Backend & APIs: Node.js, Express.js, FastAPI, REST APIs, JWT
- Frontend: HTML, CSS, JavaScript
- Databases: MySQL, SQLite, MongoDB
- DevOps & Tools: Git, GitHub, Docker, GitHub Actions, Prisma, Postman, dotenv, Mongoose
- MLOps & Libraries: MLflow, DVC, Scikit-learn, Pandas, NumPy, Matplotlib, ZenML
- File Handling & Cloud Services: Multer, Cloudinary
- Security & Utilities: bcrypt, CORS, mongoose-aggregate-paginate-v2
- Concepts: Data Structures & Algorithms, OOP

# Certifications

- Introduction to Machine Learning Kaggle Learn (Jan 2025)
- Certification of Participation CodeAstra (Apr 2025)