Aditya Agnihotri

ASPIRING SOFTWARE ENGINEER

Contact

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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, 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)**