

Ayush Garg

+91 7225997055 | aayush.garg.1793@gmail.com | github.com/LavaCandy1 | in/ayushgarg-17lc | leetcode.com/u/AyushGarg17

SUMMARY

Backend and Machine Learning Engineer with hands-on experience integrating deep learning models into production-ready APIs. Built GPU-accelerated image restoration pipelines, multi-model inference services, and secure microservice architectures using FastAPI, Docker, and TensorFlow. Combines strong software engineering fundamentals with practical ML experience to deliver efficient, real-world AI applications.

EDUCATION

B.Tech CSE (AI Specialization)

Sept. 2022 - 2026 (Graduation year)

- CGPA 9

Bennett University

Greater Noida, India

Intermediate

Completed in 2021

- 84.4% in 12th (2020 - 2021)

- 92.4% in 10th (2018 - 2019)

No1. Airforce School

Gwalior, India

TECHNICAL SKILLS

Programming Languages : Java, Python, C++, TypeScript, SQL, HTML, CSS

Frameworks : Spring, Angular, FastAPI

Databases : PostgreSQL, MySQL, H2

Authentication & Authorization : JWT, RBAC, Spring Security

Tools : GitHub, Postman, Git, Docker, VS Code, Figma

Other : CI/CD, OOPs, DBMS, APIs, DSA, AI & ML, Version Control

PROJECT EXPERIENCE

Timely — Java, Angular, PostgreSQL

Sep 2025 – Nov 2025

- Engineered a full-stack web-app with **3 roles** with granular permission levels using **Spring Security** and RBAC.
- Built a stateless authentication architecture securing **15+ REST endpoints**.
- Developed a reactive Angular frontend to render real-time, collision-free timetable schedules.

Shopify Analytics App — Java, APIs, JWT Auth, GraphQL, Relational Modeling

September 2025

- Architected a secure backend system to ingest and process Shopify Admin **GraphQL API** data
- Developed **14** production-grade REST APIs across **3** controller layers with token-based security.
- Enabled scalable analytics pipelines for real-time store performance tracking.

AI Image Restoration — Python, FastAPI, TensorFlow, OpenCV, Docker

Mar 2025 – Apr 2025

- Engineered a GPU-accelerated deep learning pipeline for grayscale **colorization** and image **super-resolution**.
- Integrated **DeOldify** and **Real-ESRGAN** into independent Dockerized inference services.
- Achieved end-to-end image enhancement through fully automated containerized deployment.

OTHER PROJECTS

HuffDuff — Java, Servlets, Apache Tomcat, REST API

Sep 2022 – Apr 2023

Built and integrated backend with an A* pathfinding algorithm on a campus graph and connected servlets to display real-time classroom directions.

Healthcare Backend — Python, Django, DRF, PostgreSQL, JWT, REST API

September 2025

Developed a secure RESTful API for a healthcare application to manage patient and doctor data with role-based access control.

CERTIFICATES

Improving Deep Neural Networks by DeepLearning.AI

Certified by Coursera

Generative AI with Large Language Models by AWS

Certified by Coursera

Object-Oriented Data Structures in C++

Certified by Coursera