Achal Jain

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Education

Medicaps University, Indore	Aug 2021 – Aug 2025

Bachelor of Technology – Computer Science (Specialization in AI-ML) | CGPA: 9.18

Agoshdeep International Public School, Nagda	Jul 2019 – Jul 2021

Senior Secondary (MPBSE) | 90.4%

Technical Skills

Programming Languages: Python (Proficient), Java, HTML, CSS, JavaScript

Frameworks/Libraries: FastAPI, Scikit-learn, Pandas, NumPy

Databases: PostgreSQL, MySQL

Tools & Platforms: VS Code, Git, GitHub, Jupyter Notebook, Google Colab, Postman

Core CS Fundamentals: Object-Oriented Programming, Data Structures and Algorithms, DBMS

Experience

Software Engineering Intern, Nucleusteq Consulting Pvt. Ltd.	Feb 2025 – Jul 2025

- Developed and integrated frontend components using HTML, CSS, JavaScript, and React, while building robust backend services with Java, Spring Boot, and Python across key project modules.
- Managed database operations with SQL and optimized SQL queries, improving data retrieval speed by 15%.
- Strengthened practical skills in software engineering, including debugging, Git-based version control, and Agile development practices, contributing to efficient project execution.
- Built and optimized RESTful APIs with Spring Boot & Python, reducing API response time by 25%.

Projects

**E-commerce Backend [FastAPI	Python	PostgreSQL	JWT]** GitHub	Apr 2025 – May 2025

- Engineered a robust REST API backend with JWT authentication and role-based access control, for high-volume transaction processing.
- Crafted shopping cart, checkout, and order history functionalities with JWT-based secure endpoints and Pydantic validation, significantly enhancing data integrity.
- Leveraged FastAPI async features to improve request handling throughput by **40%**.

**Disease Prediction System [Python	ML	Streamlit	Scikit-learn]** GitHub	Feb 2025 – Mar 2025

- Created a disease prediction system for heart disease and diabetes, utilizing medical data to support diagnostic insights.
- Applied SVM (78% accuracy) and Logistic Regression (85% accuracy) models using Scikit-learn, achieving strong predictive performance on standard datasets.
- Designed an intuitive Streamlit interface for user symptom input and real-time prediction display, enhancing user interaction.

**Splitwise Web App [Java	Spring Boot	PostgreSQL	JavaScript]** GitHub	Jan 2025 – Feb 2025

- Built a full-stack expense management app used by groups of **5–10 users simultaneously**.
- Features include user authentication, group creation, and flexible split options, streamlining expense division and reconciliation.
- Implemented MVC architecture and RESTful endpoints, reducing average page load time by **25%** and ensuring responsive access across devices.

Certifications & Achievements

- GATE 2025 (CS & IT): Secured a top 10% rank (AIR 13,529)
- OCI AI Foundations Associate | Oracle
- Crash Course on Python | Google
- Cisco Certified Network Associate (CCNA) | Cisco