

Atharv Agarwal

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TECHNICAL SKILLS

Programming Languages: Java, C++, Python, SQL, R, PySpark

Web Development: HTML, CSS, JavaScript, React, Express.js, Next.js, REST APIs

Tools & Technologies: Databricks, Git, Android Studio, MCP, AWS, Firebase, Arduino, PowerBI, Tableau, IoT

Soft Skills: Leadership, Team Work and Collaboration, Communication

EDUCATION

Vellore Institute of Technology (9.44 CGPA)

Bachelor of Technology in Computer Science and Engineering

Chennai, India

August 2023 – May 2027

Delhi Public School Ranipur (X: 94.8% XII: 95.6%)

Class IX – Class XII

Haridwar, India

April 2019 – March 2023

EXPERIENCE

Product Engineering Intern

Epsilon

May 2026 – July 2026

Bengaluru, India

- Architected a Databricks-based LLM AI agent, reducing manual attribution and pipeline diagnostic time by 80%
- Engineered Python and SQL tools on Unity Catalog and serverless SQL warehouses, validating data quality across 15+ pipelines spanning bronze/silver/gold layers
- Integrated tool-calling and a RAG pipeline using Databricks Vector Search and Delta tables, indexing 50+ pages of pipeline documentation to support grounded LLM responses

Data Science Intern

Five Angstrom LLP

May 2025 – July 2025

Chennai, India

- Created a compound database platform handling 120M+ molecular records using MCP based AI query generation
- Built protein visualization tools using Hugging Face OMol25, PDB APIs, and React, reducing lookup time by 35%
- Constructed an academic ERP with RBAC, dashboards using Next.js & Prisma ORM, supporting 10+ user roles

Technical Team Manager

Zero Bugs Club, Vellore Institute of Technology, Chennai

August 2023 – December 2025

Chennai, India

- Accelerated project timelines by 50% through effective coordination, task delegation, and quality-driven execution

PROJECTS

Smart Navigation Application | *Kotlin, Android Studio, Firebase, Maps API*

September 2024

- Designed a 3D navigation app using Kotlin and XML implementing Dijkstra's algorithm and BFS for real-time pathfinding with 30% speed improvement
- Integrated Firestore for live train tracking and emergency services management, processing 100MB+ data daily
- Enhanced user safety by building emergency services integration with real-time notifications

ElderEase FD - Senior Citizens Financial Tool | *Python, BeautifulSoup, MCP, ML*

February 2026

- Developed an FD comparison platform using web scraping with BeautifulSoup, aggregating real-time interest rate data across 5+ financial institutions
- Automated MCP-based classification algorithms and a chatbot for personalized recommendations on 10+ profiles

Smart House IoT System | *Kotlin, Android Studio, Firebase, Arduino, IoT Protocols*

January 2025

- Established an IoT-based home automation system enabling remote appliance control via Wi-Fi and Bluetooth, handling 50–100 daily interactions with 25% faster response time
- Optimized real-time data synchronization, automated scheduling, and IoT communication protocols, improving energy efficiency by 20% and reducing application latency by 20%

ACHIEVEMENTS

Academic Award: Ranked 2nd (9.79 CGPA, April 2024) and 4th (9.41 CGPA, April 2026) in the CSE branch.

Flipkart GRiD 7.0 – National Semi-Finalist: in Flipkart's flagship engineering challenge (September 2025).

Design Patent: Indian Patent granted for Lumi Dissect Light Pipe surgical innovation (October 2024).

Publication: Indian Patent published for A Multi-Model Navigation System for Railway Station (May 2026).

Oracle Certified: Cloud Infrastructure Data Science Professional & AI Foundations Associate (2025)

800+ DSA Problems Solved: Demonstrated proficiency in **LeetCode**, **GfG**, **CodeChef**, and **Codeforces** contests.