

Ayush Kumar

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Education

Chandigarh University

Bachelor of Engineering (B.E.) in Computer Science (CGPA: 7.85 / 10.0)

Mohali, Punjab, IN

Jul 2020 – Jul 2024

Angel's Academy Sr. Sec. School

Intermediate (Central Board of Secondary Education – 75.6%)

Haridwar, Uttarakhand, IN

Apr 2019 – Apr 2020

Experience

Infosys Limited

Software Engineer

Mysuru, Karnataka IN

August 2026 – Present

- Developing AI-powered automation solutions and agentic systems using **Python**, **LangChain**, and enterprise **LLM APIs** to execute multi-step workflows across backend services.
- Building and optimizing **RAG** pipelines integrated with **Vector Databases** and semantic embeddings for efficient enterprise search and intelligent knowledge retrieval.

Tata Consultancy Services

Assistant System Engineer

Noida, Uttar Pradesh, IN

April 2025 – July 2026

- Engineered **Java** backend services and secure **RESTful APIs** for the **Passport Seva Project (PSP V2.0)**, powering nationwide application processing and analytics across relational databases with **10M+** records.
- Built real-time KPI dashboards using **React.js**, **Redux**, **D3.js**, and **amCharts**, cutting report turnaround time by **40%**; used **GitHub Copilot** to speed up development.

Projects

SillyCoder - Algorithm Analytics & Visualization Platform | *MongoDB, Express.js, React.js, Node.js*

- Built an interactive analytics and visualization platform for analyzing algorithm performance, computational complexity, and data structure behavior.
- Designed visual representations of algorithm execution patterns to improve understanding of performance metrics and optimization opportunities.

Live Exam Proctoring Platform | *TensorFlow.js, React.js, Node.js, MongoDB*

- Developed a machine-learning-powered monitoring system utilizing computer vision and behavioral analytics techniques.
- Implemented FaceMesh, COCO-SSD, and Speech Recognition models to analyze candidate activity and detect anomalous patterns in real time.
- Evaluated detection performance using statistical threshold optimization, reducing false-positive alerts by **40%**.

Achievements

- Attained a perfect score of **100/100** in Automata Fix and 98/100 in Automata in the AMCAT Coding Exam.
- Solved **1500+** analytical and algorithmic problems across LeetCode (1000+) and GeeksforGeeks (460+), strengthening quantitative reasoning and problem-solving skills.
- Achieved a peak rating of **1714 on LeetCode**, placing in the **Top 12%** globally.

Technical Skills

Programming Languages: Java, Python, SQL, JavaScript (ES6+), C++

Generative AI: LangChain, LLM APIs, RAG, Vector Databases, Embeddings, Prompt Engineering

Data Science & ML: Pandas, NumPy, Scikit-Learn, TensorFlow.js, Matplotlib, Seaborn

Frontend & Data Visualization: React.js, Redux, D3.js, amCharts, Tailwind CSS, Angular

Backend & APIs: Spring Boot, FastAPI, Node.js, Express.js, RESTful APIs, Socket.IO

Databases: MySQL, MongoDB

Tools & Concepts: Git, GitHub, GitHub Copilot, Docker, Firebase, Data Structures & Algorithms, OOP