

GAURAV KUMAR GUPTA

Ahmedabad, India | +91 8539952185 | gauravkruguptagkg@gmail.com | LinkedIn.com | github.com/gaurav-gkg

EDUCATION

Rungta College of Engineering and Technology – Chhattisgarh, India

Sep 2022 – May 2026

Bachelor of Technology, Computer Science and Engineering; CGPA: 8/10

Intermediate, Manav Devi Dedicated Inter College – Jharkhand, India

Jul 2020 – Jun 2022

Pursued PCM with Computer Science

TECHNICAL SKILLS & CERTIFICATION

Technical: HTML, CSS, JavaScript, React, Nodejs, C++, Python, Swift, iOS Development, MongoDB, SQL, NumPy, Pandas, Matplotlib, MS Excel, MS Word, Algorithms, Data Structures, Git, GitHub.

Certifications & Training: Data Structures and Algorithms (Coding Spoon 2024), Artificial Intelligence and Machine Learning (Coding Spoon 2025), Oracle Cloud Infrastructure 2025 Certified Data Science Professional

Achievements: Secured 1st place in NASA Space Apps Challenge 2025 Local Round among 50+ teams and advanced to Global Finalist stage; achieved Top 10 ranking in HackIndia Spark 6 national hackathon among 500+ participants.

WORK EXPERIENCE

Swift Developer, Associate Trainee

Evince Development Pvt. Ltd

May 2026 – Present

- Developed and maintained iOS applications using Swift and Xcode, implementing responsive user interfaces and reusable components to enhance application performance and user experience.
- Integrated RESTful APIs, managed data handling, and resolved application bugs through debugging and testing, improving app stability and ensuring seamless functionality across multiple iOS devices.
- Collaborated with designers, backend developers, and QA teams to deliver high-quality iOS applications following Agile development practices.

Azure Based Demand Forecasting & Capacity Optimization System

Infosys Springboard Internship 6.0)

Sep 2025 – Oct 2025

- Developed an end-to-end demand forecasting system using Python, XGBoost, and Azure-based capacity planning concepts to predict cloud resource utilization.
- Engineered time-series features, lag variables, rolling statistics, and demand spike detection to improve forecasting accuracy and resource optimization.
- Built FastAPI prediction services, automated batch forecasting pipelines, and a Streamlit dashboard for KPI monitoring, regional analysis, and capacity risk alerts.

PROJECTS

AI Research Gap Finder (RAG-Powered Research Assistant)

Jan 2026 – Mar 2026

- Architected a full-stack RAG-powered natural language processing platform using React, FastAPI and LangChain with FAISS vector search to extract insights from 5+ input formats including PDF, DOCX, URL, arXiv and DOI.
- Implemented Integrated Llama 3 via Groq and Ollama for LLM inference; implemented Google OAuth, Supabase-backed history and export to PDF, DOCX and CSV, reducing manual research time by 60%.

Mars Dust Storm Detection - NASA Space Apps Challenge

Oct 2025 – Nov 2025

- Built a real-time object detection system using YOLOv8 and Python to identify Martian dust storm regions from 1,000+ satellite images, achieving 92%+ mean average precision (mAP).
- Implemented image preprocessing pipelines using OpenCV and data augmentation techniques to enhance model generalization, securing 1st place among 50+ competing teams and advancing to Global Finalist stage.

HashtVaani - Smart Glove for Speech-Impaired Communication, HackTU 6.0

Feb 2025 – Mar 2025

- Architected a real-time IoT embedded system using Arduino UNO, 5 flex sensors, and MPU6050 accelerometer to capture, process, and classify 26+ unique hand gestures with 90%+ recognition accuracy.
- Conceptualized a KNN-based machine learning classification model in Python and integrated Bluetooth (HC-05) serial communication to translate gestures into text and speech output on a connected Android application in under 200ms response time.

LEADERSHIP & EXTRACURRICULARS

Tech Hack Community - RCET Bhilai, Chhattisgarh, India

Volunteer

Mar 2025 – Mar 2026

- Mentored 30+ students in cloud computing programs including Google Cloud Arcade and AWS facilitator initiatives, contributing to a 40% increase in cloud certification completions across the cohort.
- Organized and facilitated 10+ technical workshops on cloud computing, DevOps, and software development, increasing student engagement and participation rates by 35%

Infinity Coders Club - Chhattisgarh, India

Coordinator

Mar 2023 – Mar 2024

- Led and coordinated 15+ weekly competitive programming events using C++ and Python for 30+ participants, increasing active club membership by 20% and improving average action-oriented performance by 25%