

+91 8178565373
East Delhi, Delhi
architaw123@gmail.com

Archit Aggarwal

Data Scientist / Software Developer

Portfolio
Github
Linkedin

Tech-driven Electronics and Communication Engineering student with expertise in software development, data analysis, and AI applications. Proficient in Python, C++, SQL, and API development, with hands-on experience in building scalable web solutions, real-time dashboards (Power BI, MySQL), and AI-powered chatbots. Passionate about automation, data-driven decision-making, and optimizing system performance. Proven ability to develop efficient algorithms, integrate APIs, and deploy production-ready applications.

EDUCATION

B.Tech in Electronics and Communication, Maharaja Surajmal Institute of Technology 2021 - 2025
Class 12 and Class 10 (CBSE), Bharti Public School till 2021

EXPERIENCE

Research and Development Intern Jul'24 - Aug'24
HAIER Appliances Pvt Ltd

- Developed data pipelines on real-time PCB manufacturing datasets, enhancing defect detection with 80% accuracy.
- Designed automated Power BI dashboards integrated with SQL queries, improving reporting speed by 65%.
- Optimized data processing using Python, reducing computation time by 30% and improving performance.

Trainee April 2023
Centre for Development of Advanced Computing

- Engineered UAV control software by integrating Python-based SDKs with drone sensor systems.
- Developed and tested autonomous UAV flight algorithms, improving stability and obstacle avoidance accuracy.
- Gained exposure to sensor integration and drone simulation, reducing manual control needs by 60%.

PROJECTS

Dynamic SQL Query Automation Oct'23 - Dec'23

- Created a Python CLI app to automate MySQL CRUD operations, reducing query writing time by 90%.
- Modularized SQL scripts with helper classes, improving code reusability and scalability across 3+ backend apps.
- Improved query validation and error handling, lowering runtime failures by over 70%.
- Achieved 90% reduction in manual SQL query writing, enabling faster database prototyping and improved back-end productivity.

GENIFYSUITE Aug'24 - Sep'24

- Built a responsive front-end using HTML, CSS, JavaScript with 6+ integrated tools (IP locators, validators, etc.).
- Integrated 4 external APIs to support geolocation, profile generation, and lorem text.
- Designed a mobile-optimized UI, increasing user task completion speed by 50% in usability tests.
- Implemented validation layers that caught 95% of client-side errors before backend interaction.

MORPHIE Sep'24 - Nov'24

- Created an AI chatbot using Flask, NLP, and JavaScript that suggests design themes with 93% user intent accuracy.
- Developed UI with scroll interactions and modular components, boosting responsiveness on desktop/mobile by 45%.
- Deployed backend with structured API responses, reducing load time by 40%.
- Used by 10+ users in testing phase to generate color palettes and layout suggestions based on input prompts.

SKILLS

Programming:	Python, C++, SQL, JavaScript, C#
Data & Analytics:	Power BI, PostgreSQL, MySQL, Excel
Development Tools:	VS Code, MATLAB, APIs, Git, Apache
AI & Automation:	Chatbot Development, NLP, Data Processing

ACHIEVEMENTS

- Secured a global rank of 17 in the coding-ninjas weekly contest dated | 1853 rated at leetcode
- State-Level Basketball Player | 1st Position in Inter-Zonal & Zonal Level
- Among Top 5% in CBSE (Class XII)
- School Rank 1 in International Science Olympiad (ISO)