

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 to analyze PCB manufacturing datasets for defect detection and efficiency optimization.
- Designed automated dashboards in Power BI and SQL for real-time monitoring of PCB metrics.
- Optimized data processing algorithms, reducing computation time by 30%.

Trainee April 2023
Centre for Development of Advanced Computing

- Gained hands-on experience in drone hardware, sensor integration, and software programming for UAV control.
- Built and tested autonomous flight algorithms for UAVs using Python-based SDKs.

PROJECTS

Dynamic SQL Query Automation Oct'23 - Dec'23

- Developed a command-line based Python application to dynamically execute CRUD operations on MySQL databases using mysql.connector
- Modularized SQL logic with a reusable helper class for inserting, updating, deleting, and fetching user data.
- Implemented input validation and exception handling to improve usability and reduce query errors.
- Achieved 90% reduction in manual SQL writing for basic database operations.

GENIFYSUITE Aug'24 - Sep'24

- Created a responsive web app with HTML, CSS, and JavaScript featuring tools like credit card generators, validators, profile generators, and IP locators.
- Integrated third-party APIs for IP location and lorem ipsum content generation.
- Optimized UI/UX for mobile and desktop users with interactive components and client-side validation.
- Designed for front-end developers to streamline mock data creation and testing.

MORPHIE Sep'24 - Nov'24

- Built an AI chatbot using Mistral API, Flask, and JavaScript to suggest color palettes and layout styles (grid, masonry, bento) based on user input.
- Applied NLP prompt engineering for intelligent user intent classification and structured API responses.
- Designed a modern, dark-themed chat interface with custom scroll bars and smooth UX transitions.
- Enabled real-time design assistance for web creators through API-driven interactions.

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)