

ROHIT K



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Objective

Highly motivated Computer Science Engineering student with a strong academic background and passion for software development. Seeking an opportunity to apply programming skills and contribute to innovative projects in a dynamic and challenging environment.

Education

Bachelor of Engineering (B.E) in Computer Science and Engineering

2023-Present

SRI SAIRAM COLLEGE OF ENGINEERING, Anekal, Bengaluru

CGPA: 7.31

Diploma in Computer Science and Engineering

2020-2023

Sri Jayachamarajendra (Govt.) Polytechnic Bangalore

CGPA: 8.67

Experience

Intern at Analogica Software Development PVT. LTD. (June 2023 – August 2023)

- Gained foundational knowledge in Database Management Systems (DBMS) and Python programming, including data structures.
- Learned basic concepts of Statistics, Artificial Intelligence and Machine Learning (AIML).
- Developed a solid understanding of programming logic and data handling.
- Enhanced analytical and problem-solving skills by working on practical examples related to AI and ML

Publication and Technical Writing

- “Unveiling the Magic of Matplotlib: Exploring Python’s Data Visualization Library”
Certisured – June 2023

Authored a tutorial on Matplotlib covering installation, plotting techniques, and data visualization best practices.

<https://certisured.com/blogs/matplotlib>

- “Smart Network-Based Automated Software Deployment for Multi-System Lab Environments”
IJIRIS Journal, Vol. 11, Issue 08, Nov 2025
<https://doi.org/10.26562/ijiris.2025.v1108.25>

Projects

1. Intelligent Attendance Automation with AI

Technologies used: Python, OpenCV, MTCNN, InsightFace, SQLite, ReactJS, ChatGPT (AI-assisted coding and documentation)

- Designed and deployed a Flask-based application to automate attendance tracking using image data.
- Engineered a backend system in Python and OpenCV to process image data and match it against a student pre-stored database.
- Leveraged ChatGPT for code generation, debugging, and documentation, critically refining AI-assisted outputs.
- Reduced manual effort and errors, demonstrating potential to improve attendance management efficiency, though not fully deployable yet.

2. Marketing Campaign Dashboard Prototype (Figma)

- Designed an interactive dashboard prototype in Figma to visualize campaign performance metrics.
- Focused on clarity and usability for non-technical stakeholders to quickly track KPIs.
- Showcased product-thinking and visualization skills applicable to product analyst roles.
- Livelink:
<https://www.figma.com/make/bOO7fWbgt3TokqlrVPejaU/Lead-Management-System-CRM?node-id=0-1&p=f&fullscreen=1>

3. Smart Network-Based Automated Software Deployment (Master-Slave System)

Technologies Used: Python, Multi-threading, Socket Programming (TCP, UDP), Subprocess, SQLite, TLS, Tkinter, SHA-256 Hashing, Windows Services, psutil.

- Designed and deployed a resilient Master-Slave architecture for remote, zero-touch provisioning and configuration management across heterogeneous networks (LAN/Wi-Fi).
- Developed a Tkinter-based GUI for the centralized Master node and utilized SQLite to maintain real-time inventory and client status logs.
- Engineered multi-threaded Python agents (Windows Services) that reduced manual software installation time from 5+ hours (180 clients) to a single, 2-minute command execution, eliminating significant operational overhead.
- Implemented a persistent, asynchronous command queue and heartbeat mechanism to guarantee task completion and maintain real-time connectivity telemetry, improving system resilience and management accuracy.
- Secured the deployment pipeline using TLS encryption and cryptographic SHA-256 integrity checks on all distributed software binaries, mitigating security risks and configuration drift.

Certifications

- Pandas and NumPy Tips, Tricks, and Techniques — Infosys Springboard, 2024
- Data Visualization in Python by Examples — Infosys Springboard, 2024
- Introduction to Data Science — Infosys Springboard, 2024

Skills

- **Programming Languages:** Python, Java, C
- **Web Development:** ReactJS, HTML, CSS, JavaScript (basic)
- **Databases:** SQLite, MySQL (basic)
- **Libraries & Tools:** OpenCV, Pandas, NumPy, Matplotlib, Seaborn
- **Concepts:** Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Data Visualization.
- **Design & Visualization Tools:** Figma (wireframing, prototyping, dashboard design)