

Karan Saxena

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EDUCATION

VIT Bhopal University

B.Tech - Computer Science Engineering - CGPA - 8.01

Sehore, Madhya Pradesh

2022 - 2026

City Montessori School

Higher Secondary - Percentage - 95%

Kanpur Road, Lucknow

Graduated in 2021

City Montessori School

High School - Percentage - 92%

Kanpur Road, Lucknow

Graduated in 2019

PROJECTS

Probability Calculator | Python

- Description-Program to calculate the probability of events by performing large number of experiments to estimate the approximate probability of the event.
- Visualized GitHub data to show collaboration.
- [Github Link](#)

Health Menta | HTML, TypeScript, JavaScript, Python, CSS, Git

- Developed a Health Centre Locating program.
- View hospitals, clinics, and pharmacies on a map.
- Get details like contact information, opening hours, and ratings.
- Navigate to the nearest health facility seamlessly.
- [Github link](#)

SSH Log Analyzer | Python, Bash, Wireshark, Git

- Developed a linux terminal tool to analyze remote log files
- Detect multiple failed SSH login attempts from a single IP address.
- Analyze attack patterns including time intervals, targeted usernames, and IPs.
- Gained experience in using Linux command-line tools for log analysis.
- Understood SSH protocol behavior under attack.
- The exercise strengthened understanding of log file structures, parsing techniques, and the importance of proactive monitoring.

TECHNICAL SKILLS

Languages: Python, C/C++, R, ARM64 Assembly, Bash, Rust, Embedded C

Frameworks: Flask, FastAPI, Streamlit

Microcontrollers: Arduino, MSP430, STM32, ESP32, Raspberry Pi

Developer Tools: vim, Git, Docker, Platformio, ArduinoIDE, VS Code, PyCharm, STMCubeIDE

Libraries: pandas, NumPy, Matplotlib, Sci-kit Learn

Core Concepts: Embedded Systems, RTOS, Communication Protocols(UART, SPI, I2C), Linux

ACHIEVEMENTS

- Solved 50+ questions on [Leetcode](#)
- Python Gold Badge on [HackerRank](#)
- Completed Cyber-Security Analyst certification from IBM Career Education Program
- solved 25+ Project-Euler Problems : [Github link](#)
- Completed Embedded System Design Certification from Maven Silicon.