Priyansh Rathore

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Education

VIT Bhopal University	*August 2022 – Present*
B.Tech, Computer Science and Engineering (Core)	CGPA: 8.07

Skills

Languages: Python, Java, Kotlin, SQL, JavaScript, XML, PHP
Frameworks & Technologies: Scikit-learn, Flask, React Native, Jetpack Compose, Jest, Node.js
Databases: MySQL, SQLite, DBMS
Tools & Platforms: Git, GitHub, VS Code, Android Studio
Core Competencies: Data Structures Algorithms, Networking, Operating Systems, Computer Architecture

Projects

AI-Driven Web Application Firewall [GitHub] *January 2025*
Technologies Used: Python, Scikit-learn, Flask, Machine Learning

- Architected an intelligent Web Application Firewall to provide advanced protection against OWASP Top 10 vulnerabilities.
- Implemented a feature extraction pipeline to convert raw HTTP requests into numerical vectors based on 19 distinct features (e.g., keyword counts, entropy, special character frequency).
- Trained and fine-tuned a Logistic Regression classifier on a dataset of over 40,000 requests, achieving **98.4% accuracy** and high precision in threat detection.

PR-OS [GitHub] *March 2025*
Technologies Used: JavaScript, x86 Assembly, BIOS

- Developed a bootloader that assembles JavaScript commands into a 512-byte bootable binary for x86 systems.
- Generated raw machine code to perform low-level operations, including setting up the stack, interfacing with BIOS video interrupts (INT 10h) for screen output, and halting the CPU.
- Demonstrated a deep understanding of computer architecture, operating system principles, and binary data manipulation.

Kissan Mitr [GitHub] *December 2024*
Technologies Used: PHP, Node.js, HTML/CSS, JavaScript

- Developed a full-stack e-commerce platform to enable direct farmer-to-consumer transactions, architected for 70% feature enhancement via future API integration.
- Integrated a real-time weather forecasting component using external APIs to provide farmers with crucial temperature and weather predictions.
- Implemented an AI-powered, multilingual chatbot with voice recognition to provide instant farmer support.

Certifications

- Oracle Data Science Professional
- SmartBridge Artificial Intelligence

Additional Information

Languages: English (Professional Working Proficiency), Hindi (Native Proficiency)
Hobbies: Reading Books, GYM, Swimming