KUMAR MOHIT

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Experience

OPEN SOURCE CONTRIBUTION (LINK) | RUST | 29TH DECEMBER 2023

· Resolved code issue in Rust: Enhanced error handling in **handle_post_request** function to avoid **unwrapping errors** without **proper handling**, ensuring a more graceful response in the event of a **query execution failure**.

· Implemented an **email validation function** to elevate input data integrity in Rust Code Base.

· Optimized formatting for **TcpListener**, **TcpStream**, **Read**, and **Write** to enhance code structure.

ROBUST HUMAN DETECTION | PYTHON | SMART INDIA HACKATHON | SEPTEMBER 2023 -PRESENT

· Led the design and implementation of a cutting-edge system for **robust human target detection** in outdoor operational scenarios, emphasizing occlusion resilience with the help of **Python Programming**.

· Incorporated **anomaly-triggered visual alarm generation** to enhance responsiveness to dynamic scenarios like **human activities** (e.g., jumping, crawling, running).

· Utilized the **ATR Algorithm Development Image Database** by **DSIAC** to optimize system performance, showcasing expertise in leveraging specialized datasets for military algorithm development.

MGNREGA ATTENDANCE SYSTEM | PYTHON | SMART INDIA HACKATHON | MARCH 2022 – JULY 2022

· Developed a precise **MGNREGA** attendance tool using **Python**, **Tkinter**, and **OpenCV**, showcasing expertise in individual identification through **face recognition** within group photos.

· Led a team in creating a user-friendly interface, integrating features such as **image upload**, **processing**, and **real-time result display** for efficient attendance tracking.

· Produced a compliant software solution surpassing **Ministry of Rural Development** requirements, demonstrating leadership in a hackathon environment and expertise in **image processing** and **UI design**.

Education

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE | DRIEMS UNIVERSITY | CGPA -8.0 | (SEPT 2021 – PRESENT)

Skills & Abilities

· C, C++, Java, Python, Rust, Solidity, Linux.
· Data Structure and Algorithm, MySQL.
· OWASP Top 10, Network Security.
· Burp suite, Nmap, Metasploit, CTF.

Projects

"CRYPTOS(CRPT)" ERC-20 TOKEN (LINK) | SOLIDITY | NOVEMBER 2023 – DECEMBER 2023

· Engineered **'Cryptos'** an **ERC-20 token** adhering to the EIP-20 standard, providing seamless integration into the **Ethereum blockchain** ecosystem, Similar Like **Bitcoin**, **Ethereum**, **Solana**.

SLOT MACHINE (LINK) | PYTHON | AUGUST 2023 – SEPTEMBER 2023

· Developed and Implemented a Python-based **Slot Machine Simulator**: Created an interactive and visually engaging slot machine program featuring dynamic bet options, multiple winning lines, and realistic spin outcomes.

PORT SCANNER (LINK) | PYTHON | OCTOBER 2022 – NOVEMBER 2022

· Engineered an **Advanced Python Port Scanner**: Developed a multi-threaded port scanner using threading and a queue system, enhancing scanning efficiency and enabling concurrent exploration of target systems.

KEYLOGGER (LINK) | C++ | MAY 2022 – JUNE 2022

· Engineered a sophisticated **keylogger** program using C++ and Windows API, featuring stealth capabilities, input interpretation, and secure log storage. Demonstrated a deep understanding of **system-level programming** and **cybersecurity principles**.