Kaif Ahmad

Undergrad Student Ranchi, Jharkhand, India

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I am Kaif Ahmad, a dedicated final year Computer Science student specializing in Information Security at Vellore Institute of Technology. My fervent passion for Artificial Intelligence drives my enthusiasm for exploring its diverse facets and crafting innovative solutions. My current focus revolves around computer vision, although I am eager to delve into its other dimensions. Proficient in multiple programming languages, I also engage in web development projects as a freelancer.

Beyond technical proficiency, my leadership skills are evidenced by my role as Secretary in the Blockchain Community club, where I manage both technology and projects. My aspiration is to contribute significantly at the intersection of Artificial Intelligence in medicine and robotics, leveraging my skills to make a meaningful impact in the field.

Education

B.Tech
Vellore Institute of Technology
2020 - 2024
CGPA - 8.01

Senior Secondary(XII)
S.R.P College
2019 - 2020
79.75%

Secondary (X)
St. Thomas School
2016 - 2017
81.6%

Work Experience

AI/ML Intern DorkLab — Feb 2022 - Jun 2022

Virtual Engagement Navigator - I collaborated closely with a dynamic team to enhance student engagement in online classes, a vital aspect of contemporary education. Leveraging our combined skills, we developed an innovative solution. This system utilized advanced technology to analyze facial expressions, eye movements, and audio cues in real time. By processing this data, our system accurately calculated attention scores, enabling timely interventions such as interactive quizzes or engaging visuals to maintain student focus and elevate the overall online learning experience.

Secretary Blockchain Community VIT — Mar 2023 - Present

As the secretary of the technical club, my role is pivotal in ensuring the smooth flow of technology and organization within the club. I am responsible for managing club correspondence, coordinating events, overseeing technical learning and projects, and monitoring member progress. I facilitate seamless information flow among club members and contribute to the overall efficiency of the club's operations.

Skills

Interests	Machine Learning, Artificial Intelligence, Web development
Programming Language	C/C++, Java, Python
Libraries/ Framework	GIT, HTML, CSS, JavaScript, React, Next.js, Node.js, Django, Firebase, Tailwind, Bootstrap, MongoDB, MySQL, OpenCV, PyTorch, Figma, Adobe XD, Canva, Illustrator.
Database	MongoDB, MySQL
Leadership	**Secretary** (Blockchain Community) - Managed technical learning, projects, and provided equal opportunities to the members.

Projects

- **Security of E-healthcare platform using Data Masking Techniques** - As a Security Engineer with a focus on healthcare technology, I have worked on the security of e-healthcare platforms also conducted extensive testing to ensure that the data masking techniques did not impact the performance of the platform.
- **CARD FRAUD DETECTION SYSTEM** - Using feasible algorithm, we can analyze the larger data-set and user provided current data-set. Processing of some of the attributes which can find affected fraud detection in viewing the graphical model of data visualization.
- **Chat Client Using RSA and AES with Key Based Dynamic SBox** - Designed chat client which uses RSA and modified AES . Used dynamic S-Box from cipher key for AES. This solves the problem of the fixed structure S-Boxes and increases the security level.
- **Virtual Keyboard** - A virtual keyboard designed to operate through finger gestures utilizes the index finger as a pointer, with a click registered when the middle finger touches the index finger. The keyboard's keys are displayed on-screen, and users can align their index finger with the desired button without the need for physical contact, subsequently initiating a click as described.
- **Helmet and Number Plate detection** -Helmet and number plate detection in traffic employ computer vision algorithms like YOLO or SSD. Cameras capture video feeds, and through edge detection and OCR techniques, the system identifies helmets on human heads and reads vehicle number plates. This technology enhances traffic surveillance, promoting road safety and law enforcement.
- **Honeypot Deception Interface** -Within the honeypot deception interface, after 3 login attempts, user details including photo, IP address, and location are captured. This information is sent to the owner via email and Telegram. Simultaneously, the user is redirected to a false interface, tricking hackers into believing a successful breach
- **Network Intrusion Detection System** -utilizes machine learning algorithms to analyze network traffic patterns and identify suspicious activities or potential security threats in real-time. Algorithms detect anomalies, patterns, and known attack signatures, enhancing cybersecurity by automatically alerting or blocking unauthorized access, ensuring network integrity and data protection.

Publication

- **MOOD PLAYER: EMOTION BASED MUSICRECOMMENDATION SYSTEM** - It utilizes facial landmarks to recognize users' emotions. These detected emotions are then used as input for Spotify, which plays music that matches the identified emotional state, creating a personalized and mood-enhancing music experience.

Languages

English ●●●●○ Hindi (Native) ●●●●●