

Kaif Ahmad

Undergrad Student Ranchi, Jharkhand, India

 Kaif Portfolio

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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.

Position Company Name

Feb 2022 - Jun 2022

Project Name - Lorem ipsum dolor sit amet, consectetur adipiscing elit. Tempor mi a, et varius nunc varius volutpat mi. Integer ullamcorper convallis risus enim, felis molestie auctor pretium. Pulvinar massa placerat ornare blandit. Cursus a, pellentesque orci eget et tincidunt orci auctor. Non mattis mattis enim feugiat eu quam turpis erat.

Skills

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, TensorFlow, Sk-learn, Keras, 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.
- **Plant Disease Detection** -Plant disease detection spans specific agricultural diseases to generic house plants, utilizing computer vision models like CNNs and GANs. Hyperpectral imaging in HSV color scale captures intricate details, aiding precise disease identification. Transfer learning enhances model performance. This diverse approach ensures accurate detection, benefiting both commercial agriculture and individual plant enthusiasts.

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)

