# Kiran V

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## Objective

Motivated individual with a keen interest in Software Engineering, Web Development and Artificial Intelligence. Eager to apply technical skills, learn new technologies, and contribute to impactful real-world projects.

## Education

**Bachelor of Computer Science and Engineering** **2022 – 2026**
*Sri Venkateshwara College of Engineering, Bengaluru* *Aggregate: 82.25% | CGPA: 8.62*

**Pre-University in PCMB** **2022**
*Vidya Jyothi PU College* *Result: 82.833%*

**Secondary School** **2020**
*Chinmaya Grameena Vidyalaya* *Result: 92.8%*

## Skills

**Programming Languages**: Python, Java, C, Basics of JavaScript, SQL
**Web Development**: HTML, CSS, Basics of JavaScript
**Databases**: MySQL, MongoDB
**Version Control**: Git & GitHub

## Work Experience

**Web Development Intern** **Dec 2023 – Jan 2024**
*Octanet Services Pvt. Ltd. (Virtual)*

- Built responsive web applications and enhanced frontend features using HTML, CSS, and JavaScript.

**Java Programming Intern** **Feb 2025 – Mar 2025**
*Codtech IT Solutions Pvt. Ltd. (Virtual)*

- Developed Java-based applications and practiced object-oriented programming concepts through real-time projects.

## Relevant Projects

**Student Face Attendance System**

- Developed a real-time biometric attendance system using deep learning-based face recognition and anti-spoofing techniques.
- Implemented facial detection and recognition using Python's `face_recognition` library and `dlib`.
- Integrated OpenCV-based live detection and MediaPipe for anti-spoofing to prevent photo and video spoofing attacks.
- Built a Flask-based backend connected to a `MongoDB` database for secure storage and retrieval of attendance records.
- Enabled real-time authentication through camera input and automated attendance marking.

**Carbon Footprint Analysis and Neutrality Pathways for Indian Coal Mines**

- Designed a web-based platform to calculate and analyze carbon emissions from Indian coal mines.
- Developed the frontend using HTML, CSS, and JavaScript with a `MySQL` backend for data management and reporting.
- Implemented emission calculations using standard carbon accounting formulas and manual entry modules for employer data.
- Proposed sustainable pathways toward carbon neutrality through process optimization and renewable energy integration.

**AI-Based Text-to-Image Generation**

- Built a generative AI model using the `Diffusers` module in Python to convert textual descriptions into realistic images.
- Leveraged pretrained text-to-image pipelines (Stable Diffusion) for high-quality image synthesis and fine-tuned parameters for improved accuracy.
- Implemented user-friendly input for dynamic text prompts and image rendering.

**Blockchain-Based Voting System**

- Developed a decentralized voting platform using the Ethereum blockchain to ensure transparency and eliminate electoral fraud.
- Implemented smart contracts in `Solidity` and deployed them using `Ganache` for local blockchain simulation.
- Integrated `MetaMask` wallet for user authentication and secure voting transactions.
- Used cryptographic hashing to enforce one-vote-per-address logic, preventing duplicate or fraudulent voting.

## Certifications

- Google AI Essentials – Coursera
- IR4.0 Foundation course – Tech Saksham
- Python – GUVI
- Python for Data Science – IBM
- Responsive Web Design – Infosys Springboard
- C Programming for Beginners – Great Learning

## Activities & Achievements

### Hackathons

- Fluxus 2025 (IIT Indore): Finalist – Face Recognition System
- CodeCarnage (SJB Institute of Technology): 24-hour Hackathon
- Vertex Innovate 2025 (VIT Vellore): Team Coders – Participated

### Workshops

- IOT Workshop
- Python for Data Science Workshop

## Interests

- Coding & Problem-Solving
- AI & Machine Learning – Experimenting with AI models and Gen AI
- Interested to Learn Programming Framework
- Non-technical interests include – Farming, Playing Cricket, Reading Books, Cooking

## Languages

Kannada, English, Telugu, Hindi