

Vansh Dhir

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EDUCATION

B.Tech. Computer Science and Engineering, **2020-2024**
Manav Rachna Institute of Research and Studies, Faridabad, Haryana, India **CGPA: 7.05/10**

WORK EXPERIENCE

Software Developer, Chainforge Technologies, Gurgaon, Haryana, India **Apr 2025-Present**

- Built a blockchain-powered NFT distribution platform featuring on-chain probabilistic logic (33% chance of NFT, 67% chance of receiving an environment token), real-time wallet tracking, and PostgreSQL-backed logging. Integrated Venice AI to generate trait-driven NFT images with rarity metadata.
- Developed an AI-powered Gmail summarizer that delivers 7/30-day email digests via Telegram using OAuth, Gemini API, and keyword-based filtering.
- Collaborated with award-winning jewelry designer Douglas Amorim to create a luxury NFT jewelry collection using AI-generated visuals and trait-based metadata rarity logic.

Software Developer, Object90 IT solutions Pvt Ltd, Chennai, India. **Jun 2024-Mar 2025**

- Worked on an NFC-triggered Telegram bot that acts as a personalized AI assistant for users. When the NFC card is tapped, the bot opens with contextual information and uses the Gemini API to simulate the owner's persona. Features include quick action buttons like owner's profiles and website.
- Built a blockchain-powered voting platform enabling transparent and verifiable decision-making.
- Worked on an AI background removal tool using the REMBG model.
- Built a Telegram Rock-Paper-Scissors game bot with token-based rewards.

Software Development Intern, MRIIC, Faridabad, Haryana, India **Jan 2024-Jun 2024**

- Developed a secure event booking platform using MERN stack, implementing authentication and role-based access control for college event management.
 - Created an AI-driven water footprint calculator with secure APIs, ensuring data privacy and sustainability.
 - Built a Django-based personalized resume builder with encrypted user data storage.
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PROJECTS

AI - Powered Water Footprint Calculator **Nov 2023-Jan 2024**

- Developed an AI-powered water footprint calculator to analyse the environmental impact of various objects.
- Implemented camera-based object scanning to identify vegetables, grains, and nuts, accurately retrieving and calculating their associated water usage.
- Optimized data processing and secure access control, ensuring efficient performance, encrypted input handling, and reliable user privacy.

Leaf Disease Detection **Oct 2023-Nov 2023**

- Developed a computer-vision algorithm to automatically identify plant diseases from leaf images, enabling early detection and more effective crop management.
- Applied advanced image-processing techniques for feature extraction and classification, requiring only a single photograph for accurate diagnosis.

- Implemented secure data handling with encrypted image storage and controlled access protocols to protect user data.

Innovative drone-based advertising solution

Feb 2023-Sep 2023

- Built a drone advertising system that projects visual campaigns in the sky, creating a high-impact alternative to billboards.
 - Delivered a low-cost, reusable system by optimizing flight time, battery efficiency, and lightweight materials, reducing operational and marketing expenses.
 - Integrated Arduino-driven hardware with a mobile and desktop control interface, enabling real-time navigation, display control, and automated flight paths.
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AWARDS

- Recognized as a Semi-finalist at the [DPBH Hackathon](#).
 - Secured a place in the grand finale of [SIH 2023](#) at VBIT Hyderabad.
 - Secured second place in the [Code Innovation Series \(CIS\) Hackathon](#).
 - Secured third place in [Arduino hackathon](#), held at MRIIRS.
 - Creative Director for various college events, including [Anubhuti](#), [Innoskill](#), [Creative Thinking](#), and the [International Symposium](#).
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SKILLS

- **Software and Programming:** JavaScript, Python, TypeScript, SQL, HTML, CSS, Node.js, Express.js, React, Django, REST APIs, MongoDB, PostgreSQL, Git, GitHub, OAuth, Telegram API, OpenCV, AWS, Azure, Google Cloud
 - **Blockchain & Web3:** NFT Smart Contracts, Solidity, Web3.js, Airdrops, Decentralized Storage, DApps, DeFi
 - **AI and Data Science:** Computer Vision, Machine Learning, Image Processing, Data Analysis, Data Preprocessing
 - **Security & Testing:** Token-Based Authentication, Role-Based Access Control, Encrypted File Storage, Secure Data Handling, Load & Performance Testing
 - **Certifications:** [Yale University – Financial Markets](#), [Udemy – Network Security Auditing with Nmap](#), [Cognitive Class.AI – Blockchain Essentials](#), [Cognitive Class.AI – Python for Data Science](#), [LinkedIn Learning – AI and Business Strategy](#), [LinkedIn Learning – Creating Your Personal Brand](#), [Udemy – HTML, JavaScript & Bootstrap](#), [Azure Data & AI Masterclass](#)
 - **Hardware & Engineering:** Arduino and Raspberry Pi, Esp8266, Drone Navigation & Flight Path Programming
 - **Languages:** English, Hindi, Punjabi
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INTERESTS

- **Sports:** Table tennis, swimming, cycling, chess
- **Hobbies & Personal Interests:** Reading on emerging technologies, blockchain, and crypto innovations, Exploring global markets and economic trends, following science developments, travel and cultural experiences