

Vaibhav Dhir

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Profile

Electrical and Electronics Engineering student with a focus on advanced algorithms and intelligent systems. Skilled in crafting robust solutions using AI, ML, and DSA. Known for problem-solving, innovation, and delivering scalable, user-focused technology.

Education

B.Tech, Electrical and Electronics Engineering , VIT Chennai	2021–2025
Class XII (CBSE) , GGPSP Ludhiana	2021
Class X (CBSE) , Kundan Vidya Mandir Ludhiana	2019

Experience

Software Developer Intern , Vertex Info Soft Solutions, Chandigarh	Oct–Nov 2023
<ul style="list-style-type: none">Improved web module performance by 30% through optimization.Engineered scalable algorithms and enhanced user experience.Reduced bugs by 40% through rigorous debugging.Delivered under tight deadlines using Agile methodologies.	

Skills

Languages: C++ (Proficient), Python, Java
Frameworks/Tools: OpenCV, TensorFlow, PyTorch, YOLOv3
Core: Machine Learning, AI, Algorithm Optimization
Soft: Problem-Solving, Team Collaboration, Critical Thinking

Coursework

- Advanced Data Structures and Algorithms
- Artificial Intelligence, Machine Learning
- Object-Oriented Programming
- System Design and Analysis

Projects

Replika-Style AI Chatbot – Luna

GPT + Flask chatbot with DALL-E image replies and context memory for engaging conversation.

Soccer Player Tracking (YOLOv8)

Detected/tracked players in match videos with consistent ID (REAL, LIV, REF) and Re-ID logic.

AI and ML-Based Blind Stick

Smart stick with ultrasonic sensors and AI-guided pathfinding. Achieved 90% accuracy.

Crop and Weed Detection System

YOLOv3 + OpenCV system with 98% classification accuracy. Tkinter GUI for field use.

Arduino Fire Fighter Robot

Autonomous robot using Arduino, SVM, k-NN. Achieved 95% fire detection via sensors and logic.