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Linkedin Profile

YASH PORWAL

Technical Skills: Python, HTML, CSS, Embedded C, IoT (Embedded Systems), Machine Learning, Neural Network, MATLAB

Certification:

- **COURSERA** – Machine Learning Course by Michigan University
- **MAVEN** – VLSI Design Course
- **MATLAB** – Signal Processing, Image Processing, Fundamentals
- **VITYARTHI** – Python Essentials, Fundamental of AI & ML, Computer Vision

EDUCATION			
Board	**Tenure**	**Educational institution**	**CGPA/Percentage**
B. Tech (ECE – AI & Cybernetics)	Oct 2022 – Ongoing	Vellore Institute of Technology, (Bhopal)	8.11/10
Class XII (CBSE)	April 2020 – Mar 2021	Sukho Khalsa Sr. Sec. School	82.8%
Class X (CBSE)	April 2018 – Mar 2019	Govt. Boys Sr. Sec. School	85.4%

ACADEMIC PROJECTS	
An Enhanced Artificial Intelligence Technique for Visually Challenged Using Sensor Integrated Device. (Sep 2024 – April 2025)	• Developed an AI-powered assistive device for visually challenged individuals, integrating sensors for real-time environmental perception • Combined ultrasonic sensors, camera module, and machine learning algorithms to detect obstacles and provide audio feedback. • Enabled efficient object recognition and navigation assistance through edge computing on embedded hardware (e.g., Raspberry Pi). • Enhanced user safety and mobility by delivering accurate, context-aware guidance in dynamic surroundings.
ELECTROMAGNETIC PULSE GENERATOR (EMPOWER GEN). (Sep 2023 – Nov 2023)	• Designed and developed an Electromagnetic Pulse Generator (EMPOWER GEN) capable of emitting high-intensity pulses to interfere with nearby electronic devices. • Utilized capacitive discharge systems and coil-based architectures for effective pulse generation and range optimization. • Ensured safe handling protocols and implemented shielding techniques to prevent unintended electromagnetic interference (EMI). • Conducted testing and performance evaluation to validate the EMP output, efficiency, and operational reliability.

INTERNSHIP	
Maven Silicon	**Embedded Systems Intern** (Jan 2025 – May 2025) Demonstrated applied proficiency with Arduino UNO Rev3, Raspberry Pi 3, and Node MCU boards Effectively integrated diverse sensors to gain knowledge of 3 Serial Communication protocols

EXTRA-CURRICULARS	
Extracurricular	• Worked as Core Member at AMS (American Mathematical Society) Student Chapter. • Participated in the ADVITYA Cricket Tournament and successfully reached the semifinal stage, demonstrating teamwork, strategy, and competitive spirit (Organized by College).

ADDITIONAL INFORMATION	
Hobbies	• Playing Cricket & Video Games • Travelling
Languages	English, Hindi