Yash Porwal

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EDUCATION

VIT Bhopal University *October 2022-May 2026*
B.tech in Electronic and Communication Engineering *8.09CGPA*

Sukho Khalsa Sr. Sec. School, CBSE *June 2021*
Class XII *82.80%*

Govt. Boys Sr. Sec. School, CBSE *May 2019*
Class X *85.48%*

PROJECTS

ELECTROMAGNETIC PULSE GENERATOR (EMPOWER GEN).
- 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.

An Enhanced Artificial Intelligence Technique for Visually Challenged Using Sensor Integrated Device
- 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.

CERTIFICATES

- Image Processing OnRamp
- Machine Learning with MATLAB
- Image Processing OnRamp
- VLSI Design Internship Program
- Embedded System Design
- Coursera Machine Learning Course by Michigan University

SKILLS

- Python
- Java
- Html
- CSS
- Neural Network
- Machine Learning
- Embedded C

EXTRA-CURRICULARS

- Participated in the ADVITYA Cricket Tournament and successfully reached the semifinal stage, demonstrating teamwork, strategy, and competitive spirit.
- Volunteered as a Discipline Committee member during a club event, ensuring smooth conduct, rule enforcement, and event coordination.