YASH PORWAL

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Education

VIT Bhopal University   **8.13**
B.Tech - Computer Science and Engineering   *2022 – 2026*

Technical Skills

Languages: Python, Java, HTML, CSS, SQL ,Excel,Power Bi
Frameworks/Libraries: Iot, MATLAB, Machine Learning

Work Experience

Maven Silicon   *Jan 2025 – May 2025*
Embedded Systems Intern
Demonstrated applied proficiency with Arduino UNO Rev3, Raspberry Pi 3, and Node MCU boards.
Effectively integrated diverse sensors to gain knowledge of three serial communication protocols.

Projects

AI-Based Assistive Device for the Visually Challenged   **Sep 2024 – Apr 2025**
- Built an AI-powered device using ultrasonic sensors, a camera module, and ML algorithms to detect obstacles and provide real-time audio feedback.
- Implemented edge computing on Raspberry Pi to enable efficient object recognition and navigation assistance.

Electromagnetic Pulse Generator (EMPOWER GEN)   **Sep 2023 – Nov 2023**
- Developed a pulse generator capable of emitting high-intensity pulses to disrupt nearby electronic devices.
- Used capacitive discharge systems with coil-based design and implemented safety and shielding measures to prevent unintended EMI.

Certifications

- Machine Learning Course by Michigan University – Coursera
- Python Essentials, Fundamentals of AI & ML – Vityarthi
- MATLAB Fundamentals – MATLAB

Co-Curricular Activities

Walmart Hackathon — Participant   **July 2025**
- Developed a prototype solution at the Walmart Hackathon themed "Reimagining Customer Experience with Emerging Technologies," leveraging AI to enhance customer engagement.
- Collaborated in a team to ideate and present an innovative tech-based solution under time constraints.

Robo Race – Robotics Club — Runner-up   **Dec 2023**
- Built a working race car using cardboard, recycled motors, and basic circuitry for the robotics competition.
- Secured Runner-up position among multiple teams in the Robo Race event conducted by the club.

Extra-Curricular Activities

Disciplinary Committee Volunteer – Saraswati Puja Celebration   **Dec 2023**
- Volunteered as part of the disciplinary committee to ensure smooth and respectful conduct during campus Saraswati Puja celebrations.

Hobbies & Languages

- **Languages:** Fluent in English and Hindi;
- **Hobbies:** listening to music, watching movies, Cricket.