

YASH PORWAL

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EDUCATION

VIT Bhopal University

B.Tech ECE (AI & Cybernetics)

Cumulative GPA: 8.13/10

Bhopal, Madhya Pradesh

2022 – 2026

SKILLS

- **Technical Skills:** IOT(Embedded Systems), Machine Learning, Microsoft Power BI, Excel, Statistics, Data Cleaning and Preprocessing, Feature Engineering, Data Visualization.
- **Soft Skills :** Analytical Thinking, Cross-Functional Collaboration, Verbal Communication, Task Prioritization, Project Coordination.
- **Tools & Applications :** MATLAB, MS Office, GitHub Actions, VS Code.
- **Databases :** MySQL, PostgreSQL.
- **Languages:** Python, SQL, Java.

PROJECTS

AI-Based Assistive Device for the Visually Challenged

Sept 2024 – Apr 2025

Python, TensorFlow Lite, pytttsx3, NumPy, Pandas, IOT, Sensors.

- * 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.
- * User safety and mobility by delivering accurate, context-aware guidance in dynamic surroundings.

Image Text-to-Speech Mode

Aug 2024 – Sept 2024

OCR (Tesseract), Text-to-Speech (gTTS / pytttsx3), Python

- * Built a Python GUI application to extract text from images and convert it into speech.
- * Used Pytesseract for OCR and gTTS for natural-sounding speech synthesis.
- * Designed an intuitive interface with Tkinter and added playback controls using Pygame.

CERTIFICATIONS

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

ACHIEVEMENTS & EXTRA-CURRICULAR

- Selected twice as a top performer in college-level “IMMERSION” coding and aptitude competition; currently part of the program.
- Participated in the ADVITYA Cricket Tournament and successfully reached the semifinal stage, demonstrating teamwork, strategy, and competitive spirit (Organized by College).
- Disciplinary Committee Lead (College events)

CO-CURRICULAR

- Cleared the first round of the prestigious NASSCOM Hackathon and currently progressing in the competition.
- Runner-up in Robo Race (Robotics Club) by building a functional race car using recycled motors, cardboard, and basic circuitry.
- Developed TWINCART, an AI-driven prototype to reimagine customer experience at WALMART Hackathon, presented with team collaboration under time constraints.

LANGUAGES & HOBBIES

- **Languages:** English, Hindi
- **Hobbies:** Cricket, Watching documentaries and movies, Travelling, Hiking