

Presha Patel

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SUMMARY

I'm someone who enjoys taking on challenging problems and finding practical solutions through machine learning, artificial intelligence, and advanced computing. Over time, I've developed a strong interest in how ML models are designed, trained, evaluated, and deployed in real-world systems, and I actively deepen my expertise in this area. I'm excited to learn from others, collaborate on impactful projects, and pursue opportunities that help me grow while contributing to reliable, scalable, and meaningful AI solutions.

WORK EXPERIENCE

XMATIQ Technologies ,ML Intern July-2025-Present

Contributing to computer vision projects using YOLO (OpenCV, PyTorch) for real-time object detection and OCR pipelines (Tesseract, TensorRT) for text/number extraction, including dataset preparation, model training, and performance evaluation for automation use cases.

Macrosoft Creation, Data Analyst Intern Jan 2025 - April 2025

Designing and Implementing a comprehensive Business Intelligence solution from the ground up. I developed a centralized and automated analytics dashboard using Microsoft Power BI, connected directly to the institute's MySQL database.

SKILLS

Programming Languages : Python, MySQL, C, MongoDB, React.js, Node.js, HTML, CSS, JavaScript .

Tools: Prompt Engineering, Power BI,Docker, Git, GitHub

ML Frameworks: SDKs, Pandas, Numpy, LangChain, Pytorch, Keras,Tensorflow. LLMs

PROJECTS

Automated Wagon Number Recognition System (Computer Vision + OCR) [Link to Demo](#)

Developed a real-time wagon-number detection system using a custom-trained YOLO model integrated with a GStreamer and OpenCV video pipeline. The detected number regions were processed using Microsoft Florence OCR to accurately extract wagon numbers from moving train footage. The system also automated frame capture and generated structured CSV logs, creating a fully scalable end-to-end computer vision solution.

Eventify Billing Single Page WebApplication [Link to Demo](#)

Engineered a Single Page Application (SPA) for event invoice management with full CRUD functionality using browser localStorage for persistence. Integrated `html2pdf.js` for one-click PDF generation and added CSV export for record-keeping. Designed a dynamic, responsive UI featuring real-time calculations and advanced search/filtering for a seamless user experience.

EDUCATION

2021-2025 **Bachelor's Degree in Information Technology** CGPA: 8.67/10

2021 Class 12th, GSHSEB Board 72%

2019 Class 10th, GSHSEB Board 82%