

# Presha Patel

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## SUMMARY

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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

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### 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

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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

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### 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

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2021-2025	<b>Bachelor's Degree in Information Technology</b>	CGPA: 8.67/10
2021	Class 12 <sup>th</sup> , GSHSEB Board	72%
2019	Class 10 <sup>th</sup> , GSHSEB Board	82%