

RAJ PATEL

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OBJECTIVE

Hey! I'm someone who loves turning ideas into real AI-driven solutions and finding smarter, faster ways to improve systems. I enjoy experimenting with machine learning models, refining workflows, and building applications that make a real impact. I'm always curious, always learning, and always looking to level up my skills. I'm excited to join a team where I can contribute, grow, and help create meaningful solutions together.

EXPERIENCE

Intel® AI for Manufacturing – by Intel Technology India Pvt. Ltd. Feb 2025 – Jul 2025
Completed a 16-Week Online internship focused on AI for Manufacturing. ([Certificate](#))
Microsoft Elevate Internship – by FICE Education Pvt. Ltd. & Microsoft Jan 2026 – April 2026
Completed a 12-week Microsoft Elevate Internship focused on Artificial Intelligence, Cloud Computing, and industry-ready technical skills in collaboration with Microsoft and FICE Education Pvt. Ltd. ([Certificate](#))

EDUCATION

Bachelor of Engineering in Information & Technology Graduated 2026
SAL Engineering and Technical Institute, Ahmedabad. CGPA: 8.77
Minor/Honor's in Data Science Graduated 2026
SAL Engineering and Technical Institute, Ahmedabad. Qualified

TECHNICAL SKILLS

Programming Languages	Python (Pandas , Numpy , Matplot , JobLib, scikit-learn(Intermediate), OpenCV (Beginner), TensorFlow(Learning)), C.
Frameworks & Web Technologies	Streamlit, HTML, CSS, JavaScript, Django, Node.js, AngularJS.
Machine Learning	YOLOv8, 3D Attention U-Net, Image Processing, Agentic AI , RAG Feature Engineering, Model Deployment, Model Development.
Databases	MySQL, MongoDB, BigQuery.
Editors & Version-control	Git, GitHub, VS Code, Jupyter, Google Colab, Kaggle, Claude Code.
Cloud & Tools	Google Cloud Platform, HuggingFace, KaggleHub , Google Cloud Console.

PROJECTS

AI-Driven Optical PCB Inspection for Smartphone Assembly May 2025 – Jun 2025
Engineered an industry-grade PCB defect detection Solution using **YOLOv8**, achieving **mAP@0.5 $\approx$ 0.90** across 10 defect classes and enabling real-time inspection via **Streamlit** (webcam + batch). Built multi-dataset training workflow and optimized inference for production settings. ([Live Demo](#) | [GitHub](#))

Hospital Management System March 2025 – May 2025
A Django-based web application that streamlines hospital operations including patient management, appointments, billing, pharmacy, and role-based staff access with PDF report and secure authentication. ([Live Demo](#) | [GitHub](#))

NeuroAssist – AI Based Cancer Detection System March 2026 – April 2026
AI-powered brain tumor detection and clinical decision support system using multi-modal MRI analysis, 3D Attention U-Net segmentation, and RAG-enhanced LLM reasoning for structured WHO-aligned diagnosis. ([GitHub](#))

ACHIEVEMENTS & CERTIFICATIONS

- Completed my AI for Manufacturing Certificate Course in collaboration with GTU & Intel India. ([Certificate](#))
- Anthropic Skill Jar Certifications. ([Certificate](#))
- Invited at GTU to showcase our project to Vice Chancellor of GTU , Intel Corporation Global Director for Digital Readiness Program , Senior Director of Asia pacific and japan at Intel Corporation and team. ([Linkedin](#))
- Google Cloud Skill Boost Profile and Badges. ([Profile](#))