

# ANURAG PUTHIYAVEETIL OTHAYOTH

Vadodara, Gujarat

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## SUMMARY

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B.Tech Computer Science student with experience in software engineering, Python, and AI/ML systems. Built end to end production grade computer vision and OCR pipeline for industrial HMI automation at GACL using OpenCV, image preprocessing, and structured data extraction to Excel. Developed and deployed full-stack AI applications (FastAPI, Next.js, Electron) including LLM-based agents, workflow automation systems, and desktop productivity tools.

## EDUCATION

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**G H Patel College of Engineering and Technology**

2025 – 2029

*B.Tech (Pursuing), Computer Science and Engineering | (3rd Semester)*

Vadodara, Gujarat

## EXPERIENCE

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**Development Intern at Gujarat Alkalies & Chemicals Limited (GACL)**

June 2026 – Present

*Role: Software Development Intern*

Vadodara, Gujarat, India

- Built an end-to-end computer vision pipeline using OpenCV and PaddleOCR for industrial HMI dashboard automation, achieving high-accuracy table extraction where commercial OCR tools underperformed.
- Developed custom table reconstruction algorithms using grid detection, line regression, OCR coordinate alignment, and color-based segmentation to convert unstructured visual tables into structured datasets.
- Engineered a fully offline, IP camera-integrated data extraction system with automated image capture, preprocessing (rotation correction, grayscale normalization), and secure processing to meet industrial confidentiality requirements.

## TECHNICAL SKILLS

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**Programming Languages:** Python (Advanced), JavaScript (Intermediate), C++, C, HTML, CSS

**AI/ML & Computer Vision:** Computer Vision (OpenCV), PaddleOCR, EasyOCR, LLM Integration & Orchestration, OpenAI API, Gemini API, scikit-learn, spaCy, NumPy, Pandas, Matplotlib, SymPy

**Frameworks & Libraries:** React, Next.js, FastAPI, Electron, Streamlit, Tailwind CSS, Vite, PyQt/PySide6

**Databases & Backend:** PostgreSQL, MySQL, Supabase, REST API Design

**Cloud & DevOps:** Docker, Vercel, Render, Git, GitHub, OAuth

**Core Computer Science:** Data Structures and Algorithms, Object-Oriented Programming, DBMS

**Developer Tools:** VS Code, Antigravity

## PROJECTS

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**MinuteMind — AI Meeting Execution System** | Next.js, FastAPI, Python, Supabase, LLMs [🔗](#)

- Built an asynchronous FastAPI pipeline in a team of 2 that converts meeting transcripts into structured tasks using LLM orchestration, JSON validation, and automated task extraction.
- Designed a Supabase-based task lifecycle system with validation logic for missing owners/deadlines, improving workflow efficiency from 6 days to 2 days in pilot deployment.

**ALEX — Adaptive Logic Execution eXecutor** | Python, FastAPI, LLM Integration, PyQt/PySide6 [🔗](#)

- Developed an agentic AI system that converts natural language into structured executable workflows using schema-validated LLM outputs and a controlled function execution layer.
- Built a multimodal assistant with voice/text input, deterministic intent-to-action execution, and a secure function registry ensuring only predefined actions are executed.

**Nexlyra — Productivity Browser** | Electron, JavaScript, Node.js [🔗](#)

- Built a keyboard-centric Electron browser with intent-based routing across URLs, search engines, and AI-driven queries using a custom classification engine.
- Implemented secure IPC architecture with context isolation and shipped a production Windows desktop application with native shortcuts and local-first storage.