

# SHIVEN PATEL

DOB – 19<sup>th</sup> June 2003 | Gujarat, India - 388450

+91 7802044424

[shivenpatel1963@gmail.com](mailto:shivenpatel1963@gmail.com)

[shivenpatel1963](https://www.linkedin.com/in/shivenpatel1963)

[ShivenPatel19](https://github.com/ShivenPatel19)

[Portfolio](#)

## SUMMARY

B.E. Computer Engineering student with a minor in IoT, practical implementation experience in AI/ML and software development. Developed RAG-based applications, computer vision systems, and RESTful API-driven backends. Proficient in Python, Java, and Oracle SQL, with hands-on experience in IoT, AI models, Agentic workflows and automation, MVC architecture, and database integration. Building intelligent solutions at the intersection of AI, Web Development, & IoT.

## EDUCATION

### A D PATEL INSTITUTE OF TECHNOLOGY (CVMU)

B.E. Computer Engineering 2021 – 2025 | **CGPA – 9.57**

Minor Degree in Internet of Thing 2022 – 2024 | **CGPA – 8.87**

### THE WESTERN ENGLISH MEDIUM SCHOOL (GSEB)

Higher Secondary Education 2021 | **PR – 86.58 (A2)**

Secondary Education 2019 | **PR – 96.80 (A2)**

## INTERNSHIPS

### Mastek – Associate Technical Consultant Intern

Jan 2025 – Mar 2025

- Developed backend for a Leave Management System using Servlets, JSP, POJO (Services, Data Access Objects, Models), and Hibernate, implementing an MVC architecture, alongside email alerts for Leave approvals or rejections to employees and new leave requests to managers.
- Integrated a chatbot using Flask REST API, built with LangChain SQL Agent, and the Llama 3.3 70b SpecDec model, to assist managers in making faster decisions on workforce planning and report making.

### Infosys Springboard – Artificial Intelligence Intern

Oct 2024 – Dec 2024

- I worked on object tracking in a surveillance system, utilizing computer vision and image processing techniques with OpenCV and YOLO to enable accurate real-time monitoring of vehicles in traffic areas for vehicle detection & tracking.

### Tatvasoft – Web Development Project Intern

May 2024 – Jun 2024

- Developed backend for a Virtual Community Support platform using .NET & PostgreSQL, implementing MVC architecture, and RESTful APIs that enabled integration between frontend Angular components and backend services.

## SKILLS

**Programming Languages:** Python, Java, JavaScript, Oracle SQL, HTML, CSS

**Libraries:** NumPy, Pandas, Scikit-Learn, Matplotlib, TensorFlow, PyTorch, Keras, OpenCV, P5.js, ML5.js

**Frameworks:** JDBC, Hibernate, Servlets, JSP, Flask, LangChain, LangGraph, Streamlit

**AI/ML & DevOps Tools:** YOLO, Meta SAM, Hugging Face, Docker, Git, REST API, JSON, JWT, Groq Cloud, n8n

## PROJECTS

### The Newscaster – AI Powered Indian Market News Agent [link](#)

Apr 2025 – Present

- Architected n8n automation workflow aggregating real-time market news from multiple APIs, Leveraged LLMs to filter articles and optimize post content, reducing manual processing time by 85% while maintaining high engagement rates.
- Built custom API to create 4:5 JPEG posts, streamlining news processing and social media content publication.

### HistoriAI – AI Chatbot Guide for India's Heritage [link](#)

Sep 2024 – Jan 2025

- Developed a RAG-based application with agentic workflows, with a dynamically expanding private knowledge base. Integrated multi-language accessibility (English, Hindi, Gujarati) with Text-to-Speech and Speech-to-Text functionality.
- Technologies: ChromaDB, Llama3 Models, Groq Cloud, Huggingface, Flask, Tavily AI, LangGraph, LangChain, Angular

### **Invoice Extractor API – Extract relevant information from invoices** [🔗link](#)

**Dec 2024 – Dec 2024**

- Developed a Flask-based REST API that extracts key fields, such as vendor details, items, prices, totals, and other relevant information, from JPEG and PDF invoices using the Gemini 1.5 Flash Vision model with 90% accuracy.
- Implemented a customizable field extraction feature, allowing users to fetch specific data (e.g., total price, total items)

### **Vahan – AI driven Autonomous Vehicle System**

**Jul 2024 – Present**

- Developed a vision-based navigation system with lane prediction, designed to handle diverse road conditions using image processing techniques. Created a multi-stage processing pipeline in OpenCV for lane identification and key point extraction, integrated with Meta SAM2 for precise segmentation.
- Technologies: Python, OpenCV, Scikit-learn, YOLO, Meta SAM2, NVIDIA Jetson

### **NexGuard – RFID Lock System with Intrusion Alert** [🔗link](#)

**Jan 2024 – Apr 2024**

- Designed an IoT-based security system with RFID access, email notifications, and intrusion alerts using the ESP8266 microcontroller, aimed at safeguarding door access and protecting valuable assets such as jewelry, cash & documents.

### **Miniz Kingdom – Learning and Entertainment Platform for Children** [🔗link](#)

**2024 – Apr 2024**

- Developed an educational tool for children aged 2 to 6, including those with medical conditions like dyslexia, to help them learn alphabets, numbers, and engage in gesture-based activities and games.
- Utilized a machine learning model built with PoseNet and the ML5 Neural Network, trained on a self-created dataset with lakhs of data points, offering visual and auditory feedback to enhance the learning process.

## **CERTIFICATIONS AND ACHIEVEMENTS**

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### **Professional Certification**

- Java, Servlet & JSP (LearnQuest), Python (IBM, Tutorialspoint), Oracle SQL, PL/SQL (University of Michigan, LinkedIn)
- Machine Learning (IBM, Tutorialspoint), Computer Vision and Image Processing (IBM), Data Analysis (IBM)
- Full Certification List: <https://www.linkedin.com/in/shivenpatel1963/details/certifications>

### **Code in Place – Stanford University, USA**

- Completed a seven-week online Python program based on Stanford University's CS106A curriculum, earning an Experienced Student Badge.

### **Best Business Idea 2023 (Funding Granted) | Idea: Cubio – a cube-like interactive toy**

- Helps children under age 6 years to learn poems, alphabets and basics of any language. For children under age 16 years to learn basics of coding and mathematics. Those above 16 years will gain basic knowledge about IoT devices and implementation skills.

### **SSIP Hackathon 2022 | QR Code Based Citizen Feedback System for Gujarat Police**

- Developed a web application featuring role-based dashboards for citizens and police officers. The system allows citizens to submit feedback and reviews about their local police stations, while police officers can securely view and manage the received feedback. Integrated QR code functionality to enable easy access for users to submit reviews.
- Technologies: HTML, CSS, JS, PHP, SQL

### **National Level Athlete**

- Represented at the National Level in Hupkwando School Games, Bhopal, Madhya Pradesh (2018).
- Competed at the National Level in Karate All India University Championship, Rajkishore Nagar, Chhattisgarh (2023).