

Jainish Parekh

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EDUCATION

OTH Amberg-Weiden

Master of Engineering in Artificial Intelligence for Industrial Applications

Amberg, Germany

March 2026 – Present

Nirma University

Bachelor of Technology in Computer Science | CPI: 8.05/10

Ahmedabad, Gujarat

July 2020 – May 2024

WORK EXPERIENCE / INTERNSHIP

Software Developer

Pedalsup

August 2024 – Present

Ahmedabad, Gujarat

Technologies: React, TypeScript, Node.js, Express.js, WebSockets, REST APIs

- Developed full-stack SaaS applications, building scalable frontend interfaces and backend services.
- Designed and implemented secure backend APIs, including Google OAuth authentication, RESTful APIs, and third-party payment gateway integrations for production applications.
- Optimized frontend performance through improved state management (Redux), lazy loading, and rendering optimizations, reducing application lag by **56%**.
- Led a team of **6** to deliver a client project within a **1-month** timeline by coordinating development, conducting regular client demos, and managing stakeholder communication.
- Performed code reviews, mentored junior developers, and contributed to Agile development workflows and maintaining code quality and delivery speed.

Full-stack Web Developer Intern

Quicko

January 2024 – June 2024

Ahmedabad, Gujarat

Technologies: Angular, TypeScript, Node.js, REST APIs, NoSQL

- Engineered complex UI workflows with **6+ application states** per page, designing reusable state management around single API-driven workflows while ensuring a seamless user experience.
- Contributed to a **monorepo architecture**, building shared libraries reused across both web and mobile applications to improve code reuse and maintainability.
- Integrated frontend modules with a multi-layer API architecture.
- Collaborated in Agile sprints through code reviews, feature planning, and translating business requirements into production-ready implementations.

AI/ML Intern

Intech Creative Solution

June 2023 – July 2023

Gandhinagar, Gujarat

Technologies: Python, LangChain, Streamlit, GPT-2, Google Flan, Falcon

- Earned the internship after winning the company's track at the MINE D Hackathon.
- Developed a document question-answering chatbot that processed uploaded HR policy PDFs and generated context-grounded responses while preventing answers beyond the provided documents.
- Evaluated and experimented with multiple open-source LLMs, including GPT-2, Google Flan, and Falcon, to compare response quality, latency, and suitability for enterprise document QA.

PROJECTS

WeatherFish | *FastAPI, Python, React, TypeScript, Llama 3.2, Ollama*

March 2026 – July 2026

- * Developed a full-stack AI-powered weather application that generates personalized weather summaries based on user preferences.
- * Integrated self-hosted **Llama 3.2 Instruct** for natural language weather generation and local text-to-speech models via **Ollama**, ensuring user data remained entirely within the application infrastructure.

- * Designed a modular backend architecture with REST APIs, asynchronous processing, and JWT authentication for scalable AI service integration.

Hotel Booking Website | *React, Node.js, Express.js, MongoDB*

June 2022

- * Built a full-stack hotel booking platform, implementing RESTful APIs for booking and hotel management.
- * Implemented user authentication, hotel search and filtering, online booking workflows, and payment gateway integration for end-to-end reservation management.
- * Developed an administrative dashboard to manage hotels, bookings, and customer data through role-based access control.

Attendance System | *Python, OpenCV, FaceRecognition, Scikit-Learn, SQLite*

March 2022 – April 2022

- * Developed a desktop attendance management system using **Tkinter** that automated face-based attendance tracking and CSV report generation.
- * Combined **FaceRecognition**, **OpenCV**, and a **Random Forest** classifier to identify registered users, while storing authentication and attendance records in **SQLite**.
- * Implemented role-based authentication for administrators and users, enabling secure attendance management and reporting.

CONFERENCE

Deep Learning Method for Multi-class Face-Mask Classification in Real Time

August 2023 – July 2024

- Published and presented the research paper as a co-author at **IAICT 2024, Bali, Indonesia**, extending a university research project into a peer-reviewed international conference publication.
- Curated and balanced a custom multi-class face-mask dataset and applied data augmentation techniques to improve model generalization.
- Developed a real-time computer vision pipeline using RetinaNet for face detection and a MobileNetV2 transfer learning model for classification, managing to achieve **86% classification accuracy**.

ACHIEVEMENTS

MINeD Hackathon: Winner of national level hackathon. Built HR policy chatbot for employees.

Pythakone: Top 20 out of 98 participated teams where built website using Flask for organization to manage resources.

SKILLS

Technical Languages: TypeScript, Python, SQL, HTML/CSS

Frameworks & Libraries: React, Node.js, Tensorflow, Pytorch, Pandas, Numpy

Developer Tools & DevOps: Git, GitHub, AWS, GCP

Languages: English (**C1**), German(**B1.1**)