

# JAYAN PALIWAL

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## EDUCATION

Manipal Institute of Technology

2022-2026

*Bachelor of Technology - Computer Science Engineering - CGPA - 8.06*

## EXPERIENCE

EkamApps [↗](#)

May 2025 - July 2025

*Full Stack Developer Intern*

- Built a B2B SaaS platform using Next.js, TypeScript, and FastAPI to help service-based businesses automate and scale their customer document collection process through WhatsApp.
- Engineered an AI-powered multi-agent workflow with CrewAI that automated document requests, validation, extraction, and customer verification, improving operational efficiency and reducing turnaround time.
- Designed a scalable, multi-tenant backend with PostgreSQL and secure RESTful APIs to support dynamic workflows, real-time tracking, and role-based access for different business users.
- Integrated WhatsApp Business API and a cron-based scheduler to enable automated reminders, status updates, and follow-ups, increasing submission rates and cutting manual coordination by over 60%.

Samsung R&D [↗](#)

August 2024 - Mar 2025

*PRISM Intern*

- Built and evaluated ML models for health monitoring using smart home IoT data, achieving 92%+ accuracy in fall detection and reducing false positives in anomaly detection by 30%
- Applied time-series analysis and activity classification to process over 10,000 smart home events, identifying irregular patterns for proactive alerts

## PROJECTS

Ophthalmology EMR App Flutter — SQLite

- Developed an EMR app to simplify ophthalmology data documentation for clinical and research purposes.
- Reduced patient registration to examination time by over 50%.
- Designed for offline functionality using SQLite, making it ideal for medical camps with spotty internet connectivity.

Maternal Healthcare Web App [↗](#) | Next.js — Prisma — PostgreSQL — FastAPI

- Developed a scalable full-stack healthcare platform using React (Next.js) and FastAPI, with Prisma for robust database management.
- Integrated an intelligent chatbot with Llama APIs to facilitate real-time, personalized healthcare interactions.
- Deployed machine learning algorithms to predict health risks, detect anxiety, and provide personalized medical recommendations.

Urban Scene Understanding [↗](#) | Python — CNN

- Created a semantic segmentation model with 84% accuracy using CityScapes DashCam dataset.
- Applied deep learning techniques for urban scene analysis.

## ACHIEVEMENTS

- Winner - App-a-thon 2024 (National-level mobile application hackathon hosted by MAHE)

## TECHNICAL SKILLS

Languages: JavaScript, HTML, CSS, TypeScript, C, C++, Python, Java, Dart

Front-End Frameworks: React, Next.js, Flutter, jQuery

Backend & Databases: Express.js, Node.js, FastAPI, Prisma, PostgreSQL, Firebase, MongoDB

AI/ML: TensorFlow, Computer Vision, Deep Learning

## EXTRACURRICULAR

ACM Manipal [↗](#)

Dec 2023 - Present

*Core Committee member*

- Organized a nationwide coding contest with 200+ participants.
- Hosted a Machine Learning competition with 170+ entries.