

JAYAN PALIWAL

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EDUCATION

Manipal Institute of Technology

2022-2026

Bachelor of Technology - Computer Science Engineering - CGPA - 7.88

EXPERIENCE

Samsung R&D

August 2024 – Present

PRISM Intern

- Designed solutions for user health identification using smart home data in the IoT domain.
- Developed models for patient monitoring, fall detection, and anomaly detection.

Infinite Insight

May 2024 – July 2024

Product Management Intern

- Enhanced search functionality, achieving measurable improvements in efficiency and usability.
- Streamlined user tutorials, reducing onboarding time and improving accessibility.
- Defined user stories to direct development efforts and ensure alignment with objectives.

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

Version Control: Git

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.

REVELS - College Fest

Feb 2024 - Mar 2024

Organizing Committee member

- Managed logistics and budget allocation for 20+ activities, ensuring smooth execution.