

JAYAN PALIWAL

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EDUCATION

Manipal Institute of Technology

2022-2026

Bachelor of Technology - Computer Science Engineering - CGPA - 7.88

EXPERIENCE

Samsung PRISM

August 2024 – Present

Research Intern

- Designed solutions for user health identification using smart home data in the IoT domain.
- Developed real-time systems for patient monitoring, mental health tracking, fall detection, and personalized wellness management.

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

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

- Built a web platform with machine learning models for risk prediction, anxiety detection, and diet recommendations.
- Integrated an interactive chatbot using Llama APIs.
- Deployed FastAPI for model integration and Prisma for database management.

Ophthalmology EMR App | [Flutter](#) — [Firebase](#) — [Hive](#)

- Developed an EMR app to simplify ophthalmology data documentation for clinical and research purposes.
- Implemented real-time data management with Firebase and offline storage using Hive.

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

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

ACHIEVEMENTS

- Secured first place at App-a-thon 2024, a national-level mobile application hackathon hosted by MAHE.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, Dart

Frameworks Tools: Next.js, Flutter, FastAPI, Prisma

Databases: PostgreSQL, Firebase, Hive

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 and a Machine Learning contest with 170+ entries.

REVELS - College Fest

Feb 2024 - Mar 2024

Organizing Committee member

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