

# AJAYKUMAR NADAR

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## EDUCATION

**Bachelor of Engineering in Information Technology**  
St. Francis Institute of Technology, Mumbai

Nov 2022 – June 2026  
8.68 CGPA

## SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL, C

**Machine Learning Tools:** PyTorch, Ultralytics YOLO, Scikit-learn, OpenCV

**Web/App Development:** Next.js, React, React Native, Flask, PostgreSQL, MongoDB, Prisma, Tailwind CSS, Auth.js

**Databases:** PostgreSQL, MongoDB, SQLite, MySQL

## WORK EXPERIENCE

### Full Stack Developer Intern

June 2025 – Oct 2025

QuickYearning Private Limited - DiamondRock

- Migrated the legacy **React frontend** and **Node.js backend** to a modern **Next.js framework**
- Deployed the Next.js application on **Vercel** for seamless **CI/CD** and hosting it on **GoDaddy** domain.
- Integrated real-time and historical stock market data using **Stock Market API** and **WebSocket feeds**, building dynamic, interactive financial charts.
- Created and managed **GitHub Organization** for efficient collaboration, added team-based roles and permissions.

## PROJECTS

### h-AdGen [Industry Sponsored Major Project]

Jul 2025 - Ongoing

Technologies: Next.js, TypeScript, WebSockets, Prisma, NextAuth, Tailwind CSS, Radix UI, React Hook Form, Zod

- Built** the end-to-end **Next.js** SaaS application for a multimodal video ad personalization platform, owning the **auth**, **upload**, consent, and video workflow experience.
- Integrated** the app with a **FastAPI** backend for **REST API** requests and a **WebSocket**-driven real-time pipeline feed, enabling live orchestration updates during media processing.
- Designed** a **PrismaORM** and **PostgreSQL** database layer to persist **users**, **actors**, **videos**, and **consent** records with transactional flows to keep generation state consistent.

### Weapon Detection System [Colloquium'25 Winning Project] [Github Repo](#)

Jan 2025 – Mar 2025

Technologies: Python, YOLO11, PyTorch, OpenCV, Ultralytics, CUDA, Telegram Bot

- Built a **real-time weapon detection system** using **YOLO11**. Collected, cleaned, and merged datasets from multiple sources by converting **Pascal VOC XML** and **TXT** annotations into a unified **YOLO format** dataset.
- Tuned training and inference pipelines and integrated **Telegram bot alerts** for real-time notifications; achieved **89% mAP@50**, **70.5% mAP@50-95**, **82.2% precision** and **86.5% recall**.

### Printeze [Personal Hobby Project] [Website](#)

Feb 2025 - Apr 2025

Technologies: Next.js, React, TypeScript, Tailwind CSS, Prisma, Auth.js, Google Drive API, pdf-lib, Zod

- Developed a full-stack **document management application** using Next.js, React, and TypeScript, enabling users to upload, merge, and manage PDF files.
- Integrated **Google Drive API** for secure file storage, folder management, and permission handling, including OAuth2 authentication and token refresh workflows.

## LEADERSHIP / EXTRA CURRICULAR

### Microsoft Learn

Jan 2024 - Oct 2024

Student Ambassador

- Represented Microsoft Learn as a **Student Ambassador** within the academic community.
- Conducted workshops to expose students to **leading domains in technology**, providing them with a head start.

## ACHIEVEMENTS

- Won **2<sup>nd</sup> Prize** at **VibeHack** Inter-College Hackathon.
- Achieved the position of **#1 Hacker** in **CodeXpress 6.0** and **7.0** on two occasions.
- Secured **2nd Runner-up** in the **Colloquium 2025** project competition.