

CHIRAG POORNAMATH

AI & Full Stack Developer

[Github](#) | [Linkedin](#) | [Portfolio](#)

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python

Frontend & Backend: React 18, Next.js, TailwindCSS, Vite, Node.js, Express.js, Flask, WebSockets (Socket.io)

Databases/ORM: MongoDB, PostgreSQL, SQLite, Prisma, Mongoose

AI/ML/Data Science: TensorFlow.js, scikit-learn, PyTorch, OpenAI API, Edge AI

DevOps: Docker, GitHub Actions, AWS, Vercel, Netlify, Render

EXPERIENCE

Software Intern – Sports Reconnect | ZEMO

June 2024 – September 2024

- Designed and implemented an **AI-powered Pool Ball Tracking and Scoring System** using **OpenCV** and **NumPy**, achieving **95%+ detection accuracy** and **real-time frame processing (<30 ms latency)**.
- Developed and integrated **camera calibration algorithms** to enhance **geometric precision and trajectory estimation accuracy by 20%**, enabling reliable automated scoring.
- Built a **modular video-processing pipeline** supporting **multi-source input (webcam/video feeds)** with **robust exception handling, interactive CLI tools, and frame capture utilities** for testing and analytics.
- Contributed to the company's **sports analytics suite**, improving **real-time performance metrics** and reducing **manual scoring effort by 80%**, accelerating product deployment for live event analytics.

PROJECTS

AarogyaSense – AI Healthcare Alert System

(Node.js, SQLite, better-sqlite3, SSE)

- Built a healthcare alert system with ASHA worker integration using real-time Server-Sent Events (SSE) for area-based notifications.
- Implemented REST API backend with SQLite persistence to manage patient alerts and follow-up logs, enabling human-in-the-loop workflows for rural healthcare monitoring.

CrashInsight – AI Traffic Safety Analysis Platform

(React, TypeScript, Flask, scikit-learn, MLxtend, Chart.js)

- Developed a full-stack accident analysis system processing 209K+ Chicago traffic records using K-means clustering and association rule mining to identify high-risk patterns.
- Built Random Forest classifier for severity prediction and discovered insights like 67% correlation between stop-sign incidents and side-impact collisions during peak hours.

CERTIFICATIONS

- AWS Academy Cloud Foundations – Completed

EDUCATION

Vivekanand Education Society's Institute of Technology, Mumbai

Bachelor of Engineering in Information Technology | 3rd Year

June 2023 - May 2027

GPA: 9.06/10.0