CHIRAG POORNAMATH

Full Stack Developer | AI/ML Engineer | Web3 & Blockchain Developer
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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Solidity
Frontend: HTML, CSS, React 18, Next.js, TailwindCSS, Vite
Backend: Node.js, Express.js, Flask, FastAPI
Databases: MongoDB, PostgreSQL, SQLite, Prisma, Mongoose
AI / ML: scikit-learn, TensorFlow, OpenCV, SHAP, LSTM, CNN, Autoencoder
Web3 & Blockchain: Solidity, Hardhat, ERC-721, Sepolia Testnet, IPFS
Tools & Deployment: Docker, GitHub Actions, Vercel, Netlify, Render

EXPERIENCE

Software Intern – Sports Reconnect | ZEMO*June 2025 – September 2025*

- Built and maintained a web-based Pool Ball Tracking and Scoring interface integrated with backend AI models using Flask and OpenCV, replacing a fully manual scoring process.
- Collaborated with designers and backend engineers to implement responsive UIs and modular APIs for real-time analytics dashboards.
- Improved system performance by optimising video-processing pipelines and enhancing data visualisation features.
- Contributed to code documentation, testing workflows, and CI/CD integration to improve deployment reliability and maintainability.

PROJECTS

Pramaan – Provenance & Trust Platform for GI/Craft Products GitHub | Live Demo

(Solidity · Hardhat · ERC-721 · Next.js · IPFS · Sepolia · OpenAI Vision)

- Designed and deployed two Solidity smart contracts on Sepolia — a soulbound artisan identity token (ERC-721) gated behind a craftScore threshold, and a product registry enforcing AI-scored authenticity (terroir ≥ 70) before on-chain registration.
- Implemented a web-of-trust layer with validator roles, Aadhaar verification flags, artisan vouching with reputation thresholds, and on-chain slashing for fraudulent pathways.
- Built dynamic tapered royalty logic settling royalties to original artisans on every ownership transfer, with anti-clone replay detection via scan-nonce checkpointing.
- Shipped a full Next.js frontend with wallet connect, AI vision verification (OpenAI/Gemini), live Sepolia event monitoring, QR-based product certificates, and a judge-ready evidence export tool.

HealthLens – Multi-Model Healthcare Analytics & Prediction Platform GitHub

(Next.js · FastAPI · PostgreSQL · TensorFlow · LSTM · SHAP · Docker)

- Engineered a full-stack platform serving tabular ML, CNN image classification, Autoencoder-based X-ray denoising, and LSTM time-series models via a unified FastAPI backend.
- Built a 30-day hospital readmission prediction endpoint combining Random Forest and ANN scores with SHAP feature attribution, persisted to PostgreSQL with clinician outcome tracking.
- Trained and evaluated 6+ ML models on 100K+ patient records; implemented LSTM sepsis risk stratification across PhysioNet Task A and Task B datasets.
- Containerised the full stack with Docker Compose and automated multi-model training via a unified train_all.py orchestration script.

ACHIEVEMENTS & CERTIFICATIONS

- **Hackathons:** Finalist at Recursion & Hack the Flame (both national-level); built Pramaan at Recursion with a teammate. Shortlisted to Round 2 of ET GEN AI Hackathon (results awaited). 10+ hackathons participated overall.
- AWS Academy Cloud Foundations – Completed

EDUCATION

Vivekanand Education Society's Institute of Technology, Mumbai*June 2023 – May 2027*
Bachelor of Engineering in Information Technology | 3rd Year**GPA: 9.09 / 10.0**