

Manav Mehta

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SUMMARY

Software engineer with a broad stack across full-stack development, AI/ML systems, and blockchain infrastructure. Built and shipped production platforms end-to-end, from LLM pipelines and ML forecasting models to REST APIs, real-time data systems, and smart contracts. Published researcher and hackathon winner, with hands-on experience in fast-moving, high-stakes environments.

EDUCATION

Indian Institute of Information Technology Vadodara May 2026
B.Tech in Information Technology | CGPA: 7.14/10
The Indian High School, Dubai 2022
CBSE

EXPERIENCE

Blockchain & AI Engineer Dec 2025 – Present
Crypto Compliance FZCO, Dubai, UAE

- Built and deployed the DarkWhale Protocol Platform from scratch (Next.js/TypeScript, Golang microservices, AWS via Docker and CI/CD), applying NLP (NER, topic classification) to unstructured news streams routed through Redis Streams into an agentic RAG retrieval system, improving compliance signal coverage by **40%**
- Deployed an algorithmic trading bot for DarkWhale in Python, achieving **30–40% returns** in live markets with a **Sharpe ratio of 2.8**
- Built *Regulatory RAG*: fine-tuned a proprietary LLM and developed agentic RAG pipelines for automated compliance document Q&A
- Led AML investigations and on-chain wallet tracking, flagging over **\$35M** in suspicious transactional exposure across active cases

Full Stack Developer Intern Apr – Jul 2025
DigitalRoar Ltd., Ahmedabad, India

- Delivered a Web3 analytics platform on MERN with Graph Representation Learning, achieving **88% precision** in on-chain fraud detection across wallet analytics
- Containerized multi-tier applications on AWS (EC2, S3) with Docker and CI/CD pipelines, **cutting release cycles by 20%**

Aperture — AI Agent Permission Layer 2026
Stacks Blockchain [aperture-1.vercel.app](#)

- Architected and shipped a policy-enforced API gateway using Clarity smart contracts on Stacks, with a Next.js/Supabase platform enabling multi-tenant agent management, real-time audit logs, and spending controls

PROJECTS

Verity — Onchain Intelligence *AI Track Winner, Portaldot Hackathon 2026* [verity-amber-omega.vercel.app](#)

- Built a natural-language blockchain analytics platform using Gemma 26B to route plain-English queries to 20+ live chain endpoints, with every result logged on-chain as a signed extrinsic on Substrate

HotelPulse — Demand Forecasting Engine [hotelpulse.vercel.app](#)

- Built an end-to-end ML pipeline (XGBoost, 119k records, UAE event features) forecasting weekly hotel occupancy, with an LLM agent (Claude API) auto-generating marketing content when predictions drop below threshold

ShipIT — Claim Management System github.com/manav2701/shipment-claim-portal

- Designed a microservice-based ASP.NET backend with normalized SQL schemas and a React/Material-UI frontend, validated across 50+ real claim scenarios

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Solidity, C, C++, SQL, Bash
AI & ML: LLM fine-tuning, RAG, LangGraph, MCP, NLP, PyTorch, XGBoost, Graph ML, Pandas
Web & Backend: React, Next.js, Node.js, ASP.NET, Golang (basics), REST, gRPC, Microservices
Blockchain: Ethereum, Polygon, Stacks, Substrate, EVM, Clarity, ZK-SNARKs, on-chain forensics
Data & Infra: Redis, TimescaleDB, MongoDB, PostgreSQL, AWS (EC2, S3), Docker, CI/CD, Git, Linux

ACHIEVEMENTS & RESEARCH

Smart India Hackathon Finals — Ranked top 6 of 88,000+ teams nationally; shipped a Data Duplication Alert System under a hard deadline in an agile team

Research: *RBD360* 360 Video Quality Dataset — Scientific Reports Journal (2026); *VR Cognition Study* — AIVR 2025 (Published)

Competitive Programming: Codeforces 1200+ (Pupil) | **Certifications:** Chainlink Fundamentals, NVIDIA Deep Learning

Leadership: Joint Secretary, Encore Music Club; Documentation Lead, KREIVA fest (400+ participants)