Nisar Ahmed

AGENTIC HEALTH-TECH ARCHITECT | SOLUTIONS ORCHESTRATOR

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TECHNICAL EXPERTISE

Agentic Intelligence

Multi-Agent Orchestration, Semantic Routing, Agentic RAG, LangChain, Python (Scalable), Rust Engine

Enterprise Architecture

Universal Engineering, Real-World Evidence (RWE), Microservices, Cloud (GCP/Azure), CI/CD/IaC

Governance & Compliance

ABDM 2.0, DPDP Act Rule 8.3, HL7 FHIR R5, Clinical Reliability Shield, AES-256

PROFESSIONAL SUMMARY

Senior Health-Tech Architect specialized in **Agentic Solutions** and **Universal Health Intelligence** with 10+ years of clinical domain experience. I bridge the gap between fragmented "Dark Data" and enterprise-grade intelligence by architecting **ORCHESTRA™**, a multi-agent system designed for Pharma MNCs, Insurance, and Hospitals. Expert in orchestrating **DPDP-compliant** and **ABDM-ready** agentic workflows that transform clinical logic into high-integrity infrastructure.

HERO ROLE: UNIVERSAL HEALTH INTELLIGENCE

Lead Architect | Project ORCHESTRA™ | OmniIngest Systems   Nov 2025 - Present

"Building the 'Google' for Reliable Healthcare Data—Universal Intelligence for the Global Health Economy."

- **The Orchestrator:** Architecting **ORCHESTRA™**, a multi-agent platform serving Pharma (RWE), Insurance (Fraud Audit), and Hospitals (Clinical Reliability) to rescue clinical "Dark Data."
- **The Ingestion Engine (Rust):** Engineered **OmniIngest**, a high-performance engine transforming unstructured medical records into type-safe **HL7 FHIR R5** streams.
- **Agentic RAG & Routing:** Built a **Semantic Router** and RAG pipeline to cross-verify clinical workflows against **Medical Law (IIT-KGP)** and **ABDM 2.0** governance.
- **The Safety Shield (DPDP):** Developed an autonomous "Kill Switch" for **DPDP Act Rule 8.3**, enabling cryptographic data shredding across distributed agent networks.

CAREER EVOLUTION (2012–2025)

Clinical Domain Expert & Systems Orchestrator | R K Nursing Home   May 2012 - Oct 2025

Certified Operations Manager   Certified Data Analyst

- **Systems Orchestration & Leadership:** (Operations Manager) Directed end-to-end hospital logistics for 8+ years, optimizing resource allocation and patient flow. Reduced operational bottlenecks by 30% through strategic workflow redesign.
- **Compliance Architecture:** (Data Analyst) Standardized legacy patient records and audited clinical data for regulatory compliance. Architected the data logic that identified critical "Ingestion Failures" blocking national scale interoperability (ABDM).
- **Strategic Domain Intelligence:** Spent 5 years studying "ground truth" unstructured medical data in resource-constrained environments to build resilient, fault-tolerant tech solutions.

STRATEGIC CAREER MILESTONES

Operations Manager | K Arogya Advisory Services   Dec 2018 - Aug 2020

- **Multi-Center Implementation:** Led data-driven clinical workflow deployments across major institutions (KG Hospital, Ramaiah, SRM, etc.).

Customer Care Executive | Cloudnine Group of Hospitals   Nov 2015 - Nov 2016

- **Patient Relations:** Managed critical healthcare communication, gaining deep insights into patient-side friction points.

ENGINEERING PORTFOLIO

- **OmniIngest Identity (GitHub):** Full-stack repository demonstrating the "Safety Rails" architecture and agent-orchestrated remediation engine.
- **The "5-Year Code" Initiative:** Sustained technical growth through daily architectural reviews and code commits.

EDUCATION & CERTIFICATIONS

Bachelor of Computer Application (BCA) | University of Mysore   2023 - 2026 (Pursuing)

- Foundational degree focusing on core Computer Applications, Database Management, and Systems Analysis—essential skills for a techno-legal specialist building compliance tools.

Professional Certifications

- **Data Science & AI Certification** - Learnbay & IBM (Credential ID: 973125b) | *Module Completed: Python* | *Pursuing: IBM Capstone (GenAI & DS)*
- **HIPAA Training Certification** - HIPAA TRAINING.US (ID: HIPAA-0022256) | *Ensures Python-based PII masking logic adheres to technical safeguards.*
- **DPDP Act v1.1 Certification** - Adv. Prashant Mali (AI Governance, Legal Law)

Continuous Learning (In Progress)

- **Generative AI Developer** - IIT Guwahati (GenAI, ML, AI Ethics)
- **Medical Law Certification** - IIT Kharagpur (Bioethics & Reg. Compliance)
- **Healthcare Data Quality & Governance** - Coursera (UC Davis)