

Nisar Ahmed

HEALTH-TECH ARCHITECT & OPS SPECIALIST

PROFESSIONAL SUMMARY

Operational leader with 10+ years of experience pivoting into Health-Tech Architecture. Bridging the gap between **Medical Operations (Ground Reality)** and **AI/Data Compliance**. Expert in translating complex data privacy laws (DPDP Act) into actionable software architectures (Omnilingest) that protect patient data while streamlining hospital workflows.

EXPERIENCE

Senior Product Architect (ABDM & Governance) | Omnilingest Systems Nov 2025 - Present

- Architect of Intent:** Bridging the gap between 10+ years of clinical operations and regulatory code, building "Safety Rails" for India's Digital Health Ecosystem (ABDM 2.0).
- Cryptographic Compliance:** Engineered a "Kill Switch" for DPDP Act 2023 (Rule 8.3) using cryptographic shredding to ensure irreversible data deletion.
- FHIR R5 Remediation:** Built a Rust-accelerated ingestion layer to normalize legacy hospital data into FHIR standards.
- Tech Stack:** Python 3.10+, Polars, Rust, HL7 FHIR, AES-256 Cryptography, Streamlit.

Data Analyst (Strategic Rural Exposure) | R K Nursing Home Oct 2020 - Oct 2025

- Strategic Rural Focus:** Intentionally returned to a rural setting to study the "ground truth" of unstructured medical data, identifying the gap between urban tech policies and rural capabilities.
- The Omnilingest Genesis:** Standardized years of legacy patient records, proving that "Ingestion Failures" in rural hospitals are the primary blocker for national interoperability (ABDM).

Operations Manager (The Health-Tech Catalyst) | K Arogya Advisory Services Dec 2018 - Aug 2020

- Multi-Center Implementation:** Led a strategic mission to deploy data-driven clinical workflows across major institutions: KG Hospital & Rao Hospital (Coimbatore), Ramaiah (Bangalore), Velammal (Madurai), and SRM (Chennai).
- Data Standardization:** Successfully trained teams on patient data capture, exposing critical variances in data standards across hospitals—a key inspiration for future interoperability work.

Operations Manager | R K Nursing Home Nov 2016 - Nov 2018

- Resource Optimization:** Chose to lead operations in a high-volume, resource-constrained environment to master the efficiency protocols required for scalable hospital management.
- Patient Flow Logic:** Streamlined clinic-to-patient data flows, creating the manual prototypes for the digital workflows I design today.

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

- Patient Relations:** Managed critical healthcare communication at Bangalore's premier maternity hospital, gaining deep insights into "patient-side" friction points in healthcare metadata.

Healthcare Operations Coordinator

| R K Nursing Home

May 2012 - Nov 2015

- **Operational Blueprint:** Established the core logistics and clinical coordination protocols for the facility—creating the very manual systems I would eventually return to digitize.

TECHNICAL SKILLS

Core Tech & Data

Python 3.10+, Rust, SQL, Polars, Pandas, Streamlit, NLP

Healthcare Standards

HL7 FHIR R5, ABDM 2.0, HIPAA, Medical Law

Governance & Privacy

DPDP Act 2023, AI Governance, Data Privacy, AES-256 Cryptography

ENGINEERING PORTFOLIO

- **Omnilingest Identity (GitHub):** Full-stack repository demonstrating the "Safety Rails" architecture, including the Rust-based remediation engine and Python compliant layers.
- **The "5-Year Code" Initiative:** A personal discipline protocol involving daily code commits and architectural review, demonstrating sustained technical growth and consistency in building health-tech solutions.

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)