

Srihari Medarametla

Principal Architect — AI systems, governance, and enterprise architecture for regulated environments

WHERE I WORK

- AI** **AI engineering** — multi-agent systems, advanced RAG, LLM orchestration
- GV** **AI & data governance** — NIST AI RMF, model risk, explainability, bias control
- EA** **Enterprise architecture** — event-driven, microservices, cloud-native on Azure
- CX** **Client advisory** — pre-sales, competitive RFPs, board-level reporting

TOOLS - TECH I REACH FOR

LangGraph

Agentic AI

GPT-4o / 4.1

Azure OpenAI

Advanced RAG

XGBoost

SHAP

Fairlearn

NIST AI RMF

EU AI Act

FCA · DORA

DPDP · GDPR

Collibra

Immuta

Azure AKS

PGVector

Python

FastAPI

Databricks

Advanced RAG

EDUCATION

- Ph.D — Applied Statistics & Innovation Mgmt**
IISc Bangalore · 2012–2018
- M.S. — Telecom & Software Engineering**
BITS Pilani · 2003–2005
- B.Tech — Electronics & Communication**
CET Trivandrum · 1997–2001

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I design and build *AI systems that have to hold up* under real regulatory and compliance scrutiny. Seventeen years across engineering and enterprise architecture. For most of the last decade that has meant production AI and data-governance work in tightly regulated settings , like, Tier-1&2 bank's compliance stack, followed by India's National Supercomputing Mission. My comfort zone is in the disorganized middle layer: where the technology has to be genuinely good and the auditors have to be satisfied.

17+ yrs Across AI, BFSI, technology & research	40 + Prod AI models brought under governance	9d→25 min KYC/AML turnaround at a Tier-1 UK bank	>₹15000 cr National HPC-AI programme I advised on
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A FEW HIGHLIGHTS FROM MY EXPERIENCE

- End-to-End Architect | Independent Venture — AI orchestrated content studio** MAY 2026–PRESENT

A solo venture, still testing the idea and the market rather than a commercial operation. I run **three content lines off one shared AI pipeline** — a micro-drama streaming, a comedy channel, and a spec-advertising studio, owning the creative, engineering and compliance on all three. The drama line has a deployment-ready PWA, while the other two are on YouTube as of now. Early stage, still being refined. It is also an experiment into how far one person can run an actual multi-line content business using current AI tooling as a force multiplier.

Next.jsSupabaseNano Banana2Kling 3.0ElevenLabsCompliance-by-design
- Project Director | C-DAC — National Supercomputing Mission** JUL 2025–JAN 2026

Ran program governance and AI strategy for India's exascale HPC-AI infrastructure. The centrepiece was a **Sovereign Data Governance Framework**, a four-tier classification model with secure compute isolation and privacy-preserving federated learning, covering Defence, ICMR, ICAR, IMD, IITs, and built to satisfy DPDP, CERT-In and MeitY. Much of the job was getting Director-level stakeholders across many institutions to align.

Federated learningFAIR dataMulti-ministry stakeholdersDPR roadmap
- AI & Data Architect | EY (Ernst & Young)** JUN 2019–JUN 2025

Six years as lead architect on regulated AI for BFSI and others . This is the bulk of my recent work. Built a **five-agent KYC/AML pipeline** (LangGraph, ReAct, parallel fan-out, SHAP into a WORM audit trail, non-bypassable human-in-the-loop for FCA SM&CR) that took onboarding from nine days to under 25 minutes. Designed an event-driven **regulatory-change platform** on a deterministic DAG, publication to drafted amendment in 30 minutes, response time from weeks to 3–4 days, DORA Article 11 gap closed. Delivered an **advanced-RAG assistant** (HyDE, multi-query, Cohere rerank, parent-child chunking), 4–8 minutes down to under 6 seconds, with RBAC enforced at retrieval so restricted documents never surface. Ran an enterprise AI-governance programme across 40+ models on NIST AI RMF, a CI/CD gate blocking ungoverned deployments, Fairlearn and SHAP controls and closed a **FCA bias finding** (DPR 0.67 → 0.84). Also led a US wealth management pre-sales pitch that **won against two competitors**.

LangGraphAdvanced RAGCosmos DB WORMFairlearn · SHAPImmuta · Collibra
- Earlier career & doctoral research | Wipro · IISc · Infosys · Tech Mahindra** 2002–2019

Ph.D at **IISc Bangalore (2012–18)** — applied statistics and innovation management: regression and panel models, structural equation modelling, and patent-network analysis on technology transfer across Indian universities. That grounding still shapes how I approach modelling and explainability today. Around it: NLP and document-intelligence consulting at **Wipro (2018-19)**; large delivery teams (8–28 people) at client sites in India and the US, with pre-sales and RFPs, at **Infosys (2006-2012)**; and full-stack work on telecom and commercial-banking platforms at **Tech Mahindra (2002-2006)**.

PhD · Applied StatisticsDocument intelligenceProgramme deliveryCore banking