

VEERA BABU MANYAM

AI & ENTERPRISE ARCHITECTURE LEADER

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Executive summary

Enterprise and AI Architecture Leader with 22+ years defining architectural vision, platform strategy, and governance across global, highly regulated enterprise landscapes. Currently serving as Global Enterprise Architect at E.ON (approximately 75,000 employees), directing enterprise AI and automation at scale. Proven track record in transitioning autonomous and semi-autonomous agents from pilot to production using multi-agent orchestration, Model Context Protocol (MCP), and tiered RAG patterns. Trusted advisor to C-level executives on AI investment, FinOps/token governance, and build-vs-buy decisions, consistently driving measurable TCO reduction and ROI. Deep expertise in embedding Responsible AI controls aligned with the EU AI Act, ensuring robust LLMOps, guardrails, and enterprise observability.

Core expertise

Agentic & GenAI Engineering: Multi-Agent Orchestration (LangGraph, AutoGen, CrewAI, Semantic Kernel), Retrieval-Augmented Generation (RAG), Model Context Protocol (MCP), Agent2Agent (A2A), Prompt & Context Engineering, Speculative Decoding.

Enterprise AI Platforms: AI Gateways, Model Gardens, Vector Databases (Pinecone, Milvus, pgvector), Semantic Layers, Knowledge Graphs, Azure AI Search, FinOps for AI (Token Cost Governance, Model Routing, Caching).

LLMOps & AI Governance: Responsible AI Frameworks, EU AI Act Tiered Compliance, NeMo Guardrails, Red Teaming, Groundedness & Hallucination Evals, OpenTelemetry, Langfuse/Arize, Model Risk Management.

Enterprise Architecture: Reference Architecture, Well-Architected Frameworks, Multi-Region HA/DR, Landing Zones, Target-State Architecture, Portfolio Rationalization, TOGAF 9.2, LeanIX.

Cloud & Infrastructure: Microsoft Azure (AZ-305, AZ-104), Hybrid/Multi-Cloud (AWS, GCP), Event-Driven Architecture, API Integration, Terraform/IaC.

Security & Networking: Zero Trust Architecture (Zscaler ZIA/ZPA), Micro-segmentation (Illumio), IAM, Secure-by-Design Infrastructure

Selected AI platforms & products

Directed enterprise AI product lifecycles from ideation to production, including Canvas, Mira, PenTrail and Tempo. Public product information: erup.ai.

CoBolt Suite: architecting an agentic coding environment with multi-agent workflow decomposition and tool calling. RawDrive: launched photography management and client gallery delivery software (rawdrive.in). CodeIndex: created local semantic code search using vector embeddings and retrieval.

Engineered and publicly deployed multi-agent applications including LayaVani and Zentis, with orchestration, safety guardrails and lifecycle management.

ENTERPRISE LEADERSHIP

Global Enterprise Architect | E.ON SE

September 2019 - Present | Essen, Germany

Global energy and utilities enterprise

- Set the architectural direction for enterprise AI and automation across the group - defining reference patterns for GenAI and agentic use cases, their integration with enterprise data platforms, and the guardrails required for production adoption in a regulated European market.
- Define target-state architecture for the enterprise AI platform: model platform and AI gateway layers, retrieval and RAG patterns over enterprise knowledge, vector and graph data stores, semantic layer integration, LLMOps/MLOps foundations, and AI observability and monitoring.
- Establish standards and architecture patterns for autonomous and semi-autonomous agents - orchestration frameworks, tool and API integration, multi-agent workflow decomposition, human-in-the-loop checkpoints, and lifecycle governance covering safety, traceability, and auditability.
- Own Responsible AI and AI governance guardrails as senior escalation point for AI architecture trade-offs, ensuring solutions are resilient, scalable, secure, cost-optimized, and aligned to EU AI Act, GDPR, and internal risk expectations.
- Advise business, data, security, and infrastructure leadership on AI investment planning, build-vs-buy, and vendor/product evaluation; drive spend toward target technologies with explicit TCO and ROI positions. Inputs directly influence annual technology portfolio planning.
- Drive agent-enabled process transformation, replacing bespoke integrations and manual processes with reusable AI and automation patterns; promote shared architectural assets to accelerate delivery and reduce duplication across regional IT teams.
- Lead the global enterprise architecture function across business, application, data, infrastructure, and platform domains, setting standards, principles, and governance across a complex multi-country landscape; define and maintain target architectures, roadmaps, and transition plans.
- Architected and governed the enterprise Zero Trust program (Zscaler ZIA/ZPA, Illumio micro-segmentation), establishing the secure foundation for hybrid work, cloud expansion, and AI/data platform rollout.
- Led architecture and governance for migration of on-premises infrastructure to hybrid multi-cloud (Azure, AWS, GCP), delivering approximately 25% run-cost savings and the elastic capacity that AI and data workloads depend on.
- Define and monitor architecture KPIs (standards compliance, reuse rate, rationalization progress, roadmap adherence) to measure maturity and contribution to strategic goals; steward the EA repository (LeanIX) and artefact library.
- Lead the Architecture Community of Practice across regional IT teams and mentor senior and principal architects, building AI and cloud architecture capability across the function.
- Led architecture for multiple M&A integrations and carve-outs, delivering reference patterns and playbooks that accelerated subsequent transactions; optimized enterprise SD-WAN/SD-LAN architecture, reducing downtime approximately 30%.

CAREER & CREDENTIALS

Senior Technology Architect | Infosys Limited

February 2016 - August 2019

- Held full accountability for enterprise architecture orchestration and competency development, delivering high-quality, cost-effective solutions for global clients across banking, insurance, and industrial sectors.
- Partnered with client CIO organizations on target architecture definition, data and analytics modernization, and business-aligned technology strategy; identified landscape gaps and drove consolidation and modernization roadmaps.
- Led end-to-end technical ownership of complex bids: functional and technical design deliverables, RFP responses, scope, BoM, and delivery approach - balancing technical, commercial, and risk considerations into defensible, economically viable architectures.
- Mentored architects and engineers across delivery teams, raising the architecture maturity of the practice. Individual Contributor Award.

Solution Architect | Wipro Technologies

July 2014 - January 2016

- Led a 15-member architecture and engineering team; owned high- and low-level designs for strategic accounts across Cisco UCS, Unified Communications, HCS, and VMware.
- Designed and implemented Wipro's Unified Communication as a Service (UCaaS) platform and led the reference migration for a major global logistics client - a flagship engagement templated across the practice.
- Established a reusable solution architecture framework and reference documentation adopted by IT and project management functions. Best Architect of the Year; Champion Employee; Best Individual - Extra Miler.

Solution Architect & Customer Support Engineer III | Cisco Systems

February 2011 - July 2014

- Accountable for design integrity of customer network, hardware, and software systems at enterprise scale, partnering with engineering and product teams on architecture and technical solutions.
- Consulted with top-tier global clients - JPMorgan Chase, Goldman Sachs, Accenture, Verizon Wireless, AT&T - as part of the High Touch Technical Support (HTTS) team, delivering strategic planning, SLA/KPI achievement, and profitability on mission-critical platforms.

Earlier career | Infrastructure & service delivery

2001 - 2010

HP Global Soft | CSC | Wellinx | Wipro Infotech | Microwave Solutions | CMS Computer | TATA Infotech. Progressive roles in infrastructure, service delivery and team leadership. Champion Employee Award, CSC.

Certifications

Architecture: TOGAF 9.2 Certified (The Open Group)

Cloud: Microsoft Certified: Azure Solutions Architect Expert (AZ-305) | Microsoft Azure Administrator (AZ-104)

Other: ITIL v3 Foundation | Certified Management 3.0 | VMware Certified Professional (VCP) | Cisco CCVP | Cisco CCNA

Education & languages

Post Graduate Diploma, Computer Applications - APEL, Andhra Pradesh, India

Bachelor of Science - Andhra University, Andhra Pradesh, India

Languages: English (C1, Advanced) | Hindi (B1) | Telugu (B1)