

Shreekant Mandvikar

GenAI Architect | Agentic AI | Enterprise AI Platforms

2572 Radburn Lane, Concord, NC | shreekant.mandvikar@gmail.com |
mandvikar | shreekantmandvikar.com

linkedin.com/in/shreekant-

PROFESSIONAL SUMMARY

- Accomplished GenAI Architect with 10+ years developing and implementing Agentic AI, Generative AI, Intelligent Automation, and RPA solutions that reduce costs and streamline enterprise workflows.
- Architected DASH, an enterprise GenAI search platform used by 180,000+ employees daily at Wells Fargo; leading a 4-member Agentic AI team implementing 3 Agentic AI platforms and 5 Agentic AI use cases.
- Delivered 100+ robotic process migrations and \$24M in annual cost savings, with a track record of driving digital transformation, strategic roadmaps, and AI governance and compliance.
- Industry thought leader, speaker, and award-winning professional with numerous publications and contributions to the AI and automation landscape.

CORE SKILLS & COMPETENCIES

Agentic AI, Generative AI, Multi-Agent Systems, Agent Orchestration, LLM Integration, AI Governance & Responsible AI, Enterprise AI Architecture, Cloud Technology, Intelligent Automation, Product Engineering, Strategic Planning, Digital Transformation, Observability & Evals, Application Development

TECHNICAL SKILLS

Model Context Protocol (MCP), OpenAI Agent SDK, LangGraph, Google Agent Development Kit (ADK), Agent2Agent Protocol (A2A), Deep Agents, Sema4AI, Arize AI (Observability), Gemini Enterprise, NotebookLM, AWS, Python

KEY AREAS OF IMPACT

- Generative AI / Agentic AI Platform Suite Development: Built a GenAI tool matrix for efficient adoption across the bank; curated GenAI and Agentic AI patterns and Cyber-approved templates for fast development, agent test simulation, and observability (drifts, traces, spans). Led joint application development for 50+ use cases from an architecture perspective.
- Generative AI / Agentic AI Platform Suite Development: Spearheaded a 4-member Agentic AI team in defining and executing the strategic roadmap for 3 Agentic platforms: Sema4AI, Model Context Protocol (MCP) with OpenAI Agent SDK, and LangGraph.
- Intelligent Automation: Created the strategic roadmap for an Intelligent Automation journey across 10+ customers, enabling TCS to gain \$5M+ in automation revenue and an overall impact of \$50M+.
- Product Governance & Compliance: Shaped product strategy and automation practices, ensuring adherence to engineering and governance standards for Open-Source RPA (Robocorp, now Sema4AI) while sunsetting Automation Anywhere v11 and A360. Delivered \$1M+ in cost savings, a 20% reduction in time to market for AWS-container automation, and a 30%+ increase in automation stability and scalability.
- Cloud Technology: Steered the migration of RPA automation runs to AWS containers, reducing turnaround time by 60%.
- Team Leadership: Led, trained, and mentored 50+ automation developers on open-source automation tooling; created an Automated Business Process Capture and Documentation tool used by 500+ users.

CAREER HISTORY & ACHIEVEMENTS

GenAI Architect – Center of Excellence

Jul 2025 – Present

Wells Fargo | Charlotte, NC

GenAI Architect focused on enterprise-wide adoption aligned with governance and responsible AI practices.

- Created GenAI and Agentic patterns and embedded them into developer tools for easy adoption, including Cyber checks, LLM integration, agent/tool authorization and authentication frameworks, test simulation, and observability (agent drifts, evals). Framework available via LangGraph, Google ADK, A2A, and MCP.
- Built an Agentic Framework offering Agent Lifecycle, Identity, and Observability out of the box, accelerating secure agent development bank-wide.
- Built an Agent Lifecycle solution offering end-to-end agentic capabilities, including an Agentic SDK extending major agentic platforms (LangGraph, ADK, A2A, MCP) with Agent/MCP/Tool registry, agent identity, and A2A compatibility.
- Built an automated Agentic Testing framework to evaluate agents during build and run time, identifying and fine-tuning prompts and system parameters.
- Enabled Agentic Observability on top of Arize for evaluation, agent drift, and hallucination detection.
- Built a GenAI Model Pairing framework offering use cases to map and route across multiple models — on-prem and cloud — improving performance and reducing cost, while fine-tuning LLM usage to optimize tokens and prompts.
- Standardized tools and solutions across a 52+ chatbot enterprise landscape to reduce financial impact and governance risk from tool duplication.
- Enabled an Enterprise AI Agent layer across Copilot, LangGraph, and ADK, including an Enterprise Assistant spanning HR, IT, and Policy domains that reduced search time by 30% with 98% accuracy, plus Q&A and PowerPoint builder skills and a Gemini Enterprise / NotebookLM platform.
- Led GenAI architecture guiding decisions on 50+ use cases across the organization and helped teams adopt best practices; led GenAI architecture for 20+ additional agentic and GenAI use cases.
- Architected DASH, an enterprise GenAI search platform enabling 180,000+ employees to quickly search and surface enterprise knowledge daily.
- Created an end-to-end strategy for secure Skill onboarding and execution, with guardrails, measurement, and adherence to enterprise policies.

Agentic AI Lead

Jul 2021 – Jul 2025

Ally Financial | Charlotte, NC

Led strategic vision and development of the Intelligent Automation and Agentic AI platform, created the roadmap for the intelligent automation journey, and steered high-performance teams in Agentic AI innovation. Oversaw resource allocation, product development, technology integration, and regulatory compliance across platforms.

- Conceptualized and identified 5 Agentic AI use cases, including summarization, retrieval-augmented generation (RAG), and document processing, for the first batch of AI platform deployment using OpenAI Agent SDK, LangChain, LangGraph, and Model Context Protocol on AllyAI (a wrapper on top of OpenAI).
- Drove \$24M in annual cost savings leading the automation Center of Excellence, and saved \$1M+ by coordinating the migration of 100+ robots from Automation Anywhere to Python-based open-source RPA (Robocorp, now Sema4AI).
- Steered enterprise-wide initiatives to promote automation literacy, product adoption, and alignment by conducting 5+ workshops for 100+ employees on open-source RPA (Robocorp) tools.
- Built a fraud analytics bot generating \$1M+ in annual savings and a supply chain negotiation bot delivering \$300K in savings.
- Served as AI executive promoter for the Gen AI / Agentic AI Platform Suite and created a POC for an internal hackathon.

Intelligent Process Automation Analyst

Apr 2019 – Jul 2021

Tata Consultancy Services | Charlotte, NC

Created intelligent process automation strategy, design roadmap, and direction for robotic and cognitive automation solutions such as RPA and chatbots. Built, integrated, and scaled AI solutions, drove product development initiatives, and ensured compliance with business and technology policies and standards.

- Built transformative AI-powered solutions on AWS, IBM, Automation Anywhere, UiPath, and BluePrism, serving as an integrator between business needs and technology solutions.
- Drove business revenue by partnering with Analytical Product Suite Stewards and Business Product Owners to infuse automation and AI capabilities, including robotic and cognitive solutions, into business products.

- Re-engineered business processes to align with automation strategies and enterprise objectives by evaluating and prioritizing platform initiatives.
- Applied Data Analytics, Cognitive/AI, Machine Learning, and Natural Language Processing (NLP) using IBM Watson and Python to build and automate processes.
- Defined roadmap, tech stack, and solution for implementing CI/CD for UiPath/Automation Anywhere across 8+ customers.
- Delivered an end-to-end automation and AI solution for a large pharmacy, simplifying specialty Rx for large retail pharmacies and reducing drug delivery time by 5 minutes per customer.

Automation Anywhere Robotics Consultant

Sep 2018 – Apr 2019

Tata Consultancy Services | Charlotte, NC

Spearheaded a 5-member robotics team driving CoStar Lease Management process automation, delivered consultancy services on AI projects, and designed a common framework for CoStar bots.

- Spearheaded development of robotics and automation solutions from process mining and mapping to final delivery, transforming business operations.
- Defined hypotheses, designed experiments, and conducted product tests with IT, analytics, and product teams to help clients better understand robotic processes.
- Implemented 40+ unassisted bots for the CoStar leasing process, handling input, load balancing, validation, file processing, output preparation, SFTP, and notifications.
- Developed As-Is and To-Be process definitions for lease management to streamline solution design and the product development roadmap.
- Oversaw resource allocation and investments across the RPA suite while supporting go-live and process mining for SCM and PDD order-entry processes.

Oracle Application Techno-Functional Developer

Oct 2012 – Sep 2018

Tata Consultancy Services | Charlotte, NC

Oversaw delivery of a 5-phase IR SMART Transformation project to migrate the business sector to a single R12 instance. Automated business processes by adopting legacy systems and solutions in the Oracle R12 environment.

- Designed MD70 and core development, and prepared MD120 for Order Management and Advanced Pricing, and developed bursting solutions for CFDs.
- Built automated business documents such as OM CFDs using XML Publisher reports, Sales Order Acknowledgement (SOA), Change Order Acknowledgment (COA), Proforma Invoice, Quote, and Return Material Acknowledgment (RMA).
- Improved product performance through analysis and preparation of detailed tests, business logic, and documentation.

ADDITIONAL EXPERIENCE

- Oracle Application Developer, Tata Consultancy Services – Mumbai Area, India | May 2011 – Oct 2012
- Oracle Apps Technical Developer, Tata Consultancy Services – Mumbai Area, India | Dec 2009 – Apr 2011

EDUCATION

- Postgraduate Degree, Artificial Intelligence and Machine Learning — The University of Texas at Austin, 2020
- Postgraduate Program, Artificial Intelligence & Machine Learning — Great Learning, 2020
- Bachelor of Engineering (B.E.), Information Technology — Rajiv Gandhi Prodyogiki Vishwavidyalaya, 2009

LICENSES & CERTIFICATIONS

- Automation Developer Level III Certification — Robocorp, Jul 2023
- Automation Developer Level II Certification — Robocorp, Jul 2023
- Automation Developer Level I Certification — Robocorp, Apr 2023
- Big Data Foundations – Level 1 — IBM, Aug 2017

- Certified Scrum Master — Scrum Alliance, Jan 2017

LANGUAGES

English, Hindi

AWARDS & RECOGNITION

- Guest Speaker, industry-leading platforms including BotNirvana
- Hackathon Judge, MIT and Harvard (2023)
- Bronze Winner, 19th Annual 2024 Globee® Awards for Technology
- Silver Winner, 14th Annual 2024 Globee® Awards for Business (International)
- LinkedIn Recognition, Top Process Automation Voice
- LinkedIn Recognition, Top Artificial Intelligence (AI) Voice
- 2023 Golden Pinnacle Award, House of Commerce, London
- Silver Winner, 15th Golden Bridge Awards — Technical IT Professional of the Year (Non-Executive)
- Silver Winner, 13th Globee® Business Awards — Robotic Process Automation (RPA)

PUBLICATIONS

Published 9 papers on Automation and AI, with 12,000+ reads

AFFILIATIONS

- Fellow, BCS
- AI Advisory Board Member, Bot Nirvana