

Saikumar Uckoo

AI and GenAI Sr Manager | Specializing in RAG, Hybrid RAG | LLM Integration | Cloud-Native AI Platforms

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SUMMARY

Accomplished leader with 17+ years of experience, leading, designing and managing deliveries of AI, GenAI and cloud-native data solutions over last 8 years, with PG in Data science and AI. Proven expertise in **Azure, AWS cloud platforms, Data science, LLM integration, RAG pipelines, multi-agent orchestration** and **end-to-end AI&Data integration patterns**. Adept at translating complex business requirements to technical roadmaps, leading cross-functional teams and owning strategic partnerships with system owners to drive measurable ROI through AI adoption. Strong hands-on in **Python, SQL and Kubernetes**.

KEY SKILLS

Stakeholder Management | Evaluation Strategies | Ranking Algorithms | Quality Metrics | Architecting Solutions | AIDLC | Agile | BMAD

TECHNICAL SKILLS

AI & GenAI : LLMs, LangChain, CrewAI, OpenAI Agent SDK, MLOps , PyTorch, Scikit-learn, BERTopic, BM25, Machine learning, ONNX Quantization
Cloud & Platforms : Snowflake, AWS(S3, EKS, Lambda, EC2, Cloudwatch), Kubeflow, Docker, DevOps, CI/CD, Azure, LangFuse, Data Privacy
Data & Databases : SQL, CosmosDB, RedisDB, MS SQL, IBM DB2, SQLite, Vector Databases (QdrantDB, PGvector, OpenSearch), Databricks-apps
Programming: Python, C#, JavaScript, System Design, fine tuning T5-flan, RoBERTa, Data transformation, Semantic Search, Reranking, Prompt Engineering

PROFESSIONAL EXPERIENCE

Sr Manager | Accenture | Hyderabad IN Feb '26 -

- Lead the **enterprise wide digital transformation** of 4 agentic AI apps reducing medical drafts writing time by **80 %**, with GxP compliance and minimum bias.
- Strategized AI evaluation** for enterprise knowledge search with LangFuse and custom eval jobs, defining benchmarks that improved system reliability by **25%**.
- Collaborated with stakeholders** building guardrails and drift detection systems, ensuring low latency and data quality- **improving alert timeliness by 75%**
- Conducted **priority and goal settings** using industry proven methods for **22 engineers** in AI, Quality and DevOps

AI Expert | Ciklum | Chennai IN Sep '22 - Feb '26

- Accelerated GenAI adoption** by 40–60% through reusable AI accelerators, reducing time-to-value from months to weeks.
- Designed production-grade GenAI answering systems** using LLMs and RAG, integrating 10+ data sources and improving answer accuracy by 30%.
- Fine tuned T5-Flan LLM model** to ensure HR domain adherence in sentiment analysis **reducing yearly subscription cost by \$120K**
- Implemented scalable AI orchestration** ensuring **99.9% uptime** and compliance with governance standards.
- Facilitated AI workshops** for 500+ engineers, resulting in **20+ production-ready PoCs** collaborating with product engineering and L&D teams.

Sr Architect | HCL | Hyderabad Jul '21 - Sep '22

- Architected a high-availability and scalable Conversational AI platform** serving 60,000+ global employees with **99.9% uptime** by owing product lifecycle
- Translated business objectives into cloud-native AI designs**, accelerating enterprise automation adoption
- Built and scaled an AI engineering team** from 0 to 11, establishing best practices and mentorship frameworks

Tech Arch | Accenture | Hyderabad Aug '14 - Jun '21

- Deployed a secure, scalable platform** supporting tens of thousands of users, improving self-service resolution by 30%
- Integrated cognitive agents** with Microsoft Teams and Outlook, reducing manual support effort by **25%**
- Evaluated leading AI platforms** to create a decision framework that accelerated platform selection by **40%**

Sr Software Engineer | HSBC GLT | Pune | Hyderabad Jul '09 - Aug '14

EDUCATION

Master of Science | Masters Liverpool John Moores University | Jul '26 - Jan '27

Post Graduate in Data Science | IIIT Bangalore | Bengaluru, IN Jun '24 - Jul '25

Bachelor of Technology in ECE | Mahatma Gandhi Institute of Technology | Hyderabad IN May '05 - Jun '09

KEY PROJECTS

CRG Agent Factory(Agentic, AWS, Life Sciences)

- Led agent architecture build** to automate medical processes integrating Snowflake, SharePoint, Sponsor documents, proprietary systems, reducing report generation time time by **75%**. Presenting the product architecture at Architecture review boards and helping client introduce AI specific practices.

Procurement system spend Analytics (GenAI + Snowflake)

- Engineered an end-to-end data pipeline** integrating SAP, COUPA, and Snowflake, accelerating reporting cycles by **40%** across procurement systems.
- Built a multi-agent orchestration layer** using LangChain, enabling natural-language queries and reducing query turnaround by **50%**.

GenAI Agent Product Accelerator

- Delivered a containerized AI application on Azure** within 2 months, reducing GenAI setup time by **8 weeks**.
- Integrated Agentic AI with ServiceNow and Oracle HCM**, increasing self-service resolution by 30%.

AI Impact Evaluation Pipeline

- Designed an impact evaluation pipeline** to quantify AI effectiveness across thousands of service tickets.
- Applied topic modeling** to demonstrate a **25–35% reduction** in high-frequency issue categories post-automation.

CERTIFICATIONS

- Azure Solutions Architect** | Microsoft || **Azure Devops Expert** | Microsoft