SANKAR SIVASAMY

AI ENGINEER

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SUMMARY

AI Engineer and Data Scientist with 4+ years of experience building LLM applications, AI agents and machine learning models that deliver measurable business results. Works across the full cycle, from data pipelines and model development to deployment. Delivered $250K in protected annual revenue, $68K+ in new client revenue and 250+ hours of manual work removed each year. Founder of Riti, an event finance platform live on iOS, Android and web.

KEY ACCOMPLISHMENTS

- **AI in production:** Deployed an AI Knowledge Copilot from prototype to production in 6 weeks, with automated evaluations and hallucination guardrails, while reducing cost per request by 31%.
- **Revenue protected:** Retained $250K a year at SSP Group by predicting customer churn with 90% accuracy.
- **Revenue added:** generated $68K+ for freelance clients by segmenting 500,000+ customers and running A/B tests on 4 website features.
- **Time returned to the business:** Removed 250+ hours of manual reporting a year through automated dashboards.
- **Faster decisions:** Reduced report run time on 10M+ row datasets and cut data integration time by 40% across 5+ point-of-sale systems.

CORE COMPETENCIES

Machine Learning & Gen AI	AI Agents and Workflow Automation	Data Engineering and ETL
Customer Analytics & Retention	A/B Testing and Experimentation	End-to-End Product Ownership
Client Management	Commercial Problem Solving	Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

Founder & AI Product Developer May 2026 - Present

***Riti** (ritiapp.com), India*

Riti is an event planner and finance platform for Indian weddings and functions. Event businesses use it to run each job from enquiry to profit, and host families use it to track vendor payments, budgets and gifts. Live on iOS, Android and web in 9 currencies.

- Architected an 8-stage vendor workflow from enquiry to profit with per-job costing and GST invoicing, cutting quote-to-booking time by 32% and admin work by 10 hours per event.
- Processed $75K in client payments across 36 bookings through automated payment schedules and pay links on Razorpay (UPI, India), helping vendors collect $22K in overdue balances.
- Engineered offline-first sync for 5 on-site crew tools, lowering failed or lost records from 18% to 2% in venues without signal.
- Integrated AI image generation through model APIs to produce 500+ invitations, and speech-to-text voice logging in regional languages that cut entry time per record by 80%.
- Raised vendors' visibility of true profit per event, recovering an average of 15% in untracked costs across 20 jobs.

AI Engineer March 2025 - April 2026

***TAC Global Services**, Remote*

- Accelerated internal knowledge retrieval by 80% by developing a RAG-powered enterprise assistant with LangChain, PostgreSQL, pgvector, and semantic search, reducing average document retrieval time from 15 to 3 minutes.
- Reduced client service processing time by 71% (14 to 4 minutes) by deploying a LangGraph agent workflow that classifies intent, extracts key fields and routes each request, containerised with Docker and processing 2,000+ requests a month.
- Lowered LLM inference costs by 31% and p95 response latency by 44% by implementing Redis-based semantic caching, routing lower-complexity requests from GPT-4o to GPT-4o mini.

- Automated 12 client-facing workflows, eliminating 80+ manual hours monthly by engineering event-driven n8n pipelines, integrating HubSpot CRM with automated retries, error handling, and failure alerts.

Junior Data Scientist March 2024 - March 2025

Select Service Partners(SSP) Groups, *London, UK*

- Delivered $250k in annual revenue retention by developing a 90% accurate churn prediction model using advanced feature engineering and SMOTE techniques to overcome class imbalance challenges.
- Transformed regional decision-making processes through custom **Power BI** dashboards that reclaimed 32+ hours monthly and accelerated strategic planning by 30%.
- Engineered ETL pipelines integrating 5+ POS systems, slashing data integration time by 40%.
- Optimized SQL performance on 10M+ row datasets, cutting report generation time by 50% (12 hrs → 6 hrs).

Freelance Data Scientist May 2021 - November 2022

Independent Consultant, *India*

Partnered with clients (**Akira Corp)** across industries ranging from mid-sized e-commerce platforms to digital marketing agencies—to solve data-driven business problems through ML, analytics, and automation.

- Generated $50k+ in incremental revenue through RFM segmentation of 500K+ customers, developed targeted campaigns that increased customer retention by 12% and enhanced overall customer lifetime value.
- Drove $18K in additional revenue by designing and analyzing A/B tests across 4 critical website features, resulting in 20% higher engagement and 12% conversion rate improvement.
- Eliminated 600+ hours of manual reporting annually by automating Power BI dashboards for $500k revenue tracking.

Operational Analyst, *Operations Team* December 2020 - April 2021

Royal Classic Mills, *India*

- Forecasted inventory demand using ARIMA models, reducing stockouts by 25% and lowering excess inventory costs by $10K annually.

PRODUCTS

- **Riti** (*ritiapp.com*) — Cross-platform event management and financial operations SaaS for vendors and families, featuring payment automation, AI-powered invitations, and expense tracking.
- **Bible DMs** (*bibledms.com*) — Consumer application transforming Scripture into interactive, text-message-style conversations for digital reading and engagement.

EDUCATION

Master's (MSc) in Artificial Intelligence, Merit | *Queen Mary University of London, UK*

- **Dissertation:** Weapon Detection Using YOLOv7 – Achieved 94% mAP on custom datasets.

Bachelor's (BSc) in Computer Technology, 1st | *PSG College of Arts & Science, India*

SKILLS

- **AI & LLM Engineering:** LLM applications, RAG pipelines, AI agents, Model Context Protocol (MCP), LangChain, Hugging Face, Loop Engineering, Langraph
- **Machine Learning:** Predictive modelling, regression, classification, statistical analysis, MLOps, FastAPI
- **Data Engineering:** Python (Pandas, NumPy), SQL (MySQL, BigQuery), Data Visualisation, PySpark, ETL pipelines, MongoDB, Docker, AWS, Redis
- **BI, cloud and automation:** Power BI, Tableau, Microsoft Azure, AWS, n8n, HubSpot

CERTIFICATIONS

Microsoft Azure - Data Scientist Associate(**DP-100**), AI Fundamental