

MEGHASHYAMA SARMA

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SUMMARY

GenAI engineer and architect operating at Staff scope: sole engineer-of-record on four production multi-agent AI systems at Walmart Canada, including an enterprise analytics agent serving 600+ users at 2,000+ queries/week. Ten years of experience with enterprise data platforms (100M+ row warehouses) underpinning two-plus years of shipping agentic systems 0→1 — owning stakeholder discovery, architecture, leadership review, build, deployment, evaluation, and adoption end to end. Brings engineering depth with a product mindset.

TECHNICAL SKILLS

Agentic AI & LLM: Multi-agent systems, RAG, LangGraph / LangChain, Google ADK, Pydantic AI, OpenAI Agents SDK, Anthropic API & SDK, MCP, prompt & context engineering, embeddings, vector DBs (Milvus, Pinecone, pgvector)

Evaluation & Observability: LLM-as-a-judge, golden Q/A regression suites, explainability UX, OpenTelemetry, latency & cost optimization

Cloud & Data: GCP (BigQuery), AWS, Azure, Docker, CI/CD, Cube.js semantic layer, PostgreSQL / Supabase, ETL, data modeling, data contracts & SLAs

Programming: Python (Pandas, NumPy, FastAPI), SQL, TypeScript / JavaScript, React, Next.js

Models: Claude (Opus), OpenAI GPT-5.x, Gemini — multi-model routing by task

PROFESSIONAL EXPERIENCE

Staff AI Engineer — Walmart Canada

Jun 2026 – Present

Store Agent — Agentic Platform

- Architected a multi-agent system (Google ADK; Gemini + Claude) that diagnoses store-level performance for merchants, executing advanced analyses via sandboxed Python code execution.
- Grounded agents in Nielsen, Environics, space-planning, and store dimension data; fused live Google Maps with Nielsen data for real-time competitor intelligence, geospatial reasoning, and generated visual insight reports.

Price Change Submission Agent — Agentic Workflow Automation

- Built a LangGraph state-machine agent orchestrating pricing workflows between merchants, CTAs, and the pricing team, with Pydantic-typed, validated payloads end to end.
- Executes finalized pricing plans directly against the internal pricing portal behind human sign-off gates — an agent that acts, not just recommends.

Project Management Agent — Autonomous Orchestration

- Ingests SharePoint, PowerPoint, Excel, and PDF sources; integrates Outlook, Teams, and meeting transcripts via Microsoft Graph; maintains persistent self-updating memory and a continuously refreshed PM dashboard with zero manual upkeep.

Wally — Enterprise AI Analytics Agent (ongoing ownership)

- Own the production roadmap for the multi-agent platform serving 600+ users at 2,000+ queries/week — 10–15 second answers versus hours of analyst turnaround.

Lead GenAI Engineer (Contract) — Walmart Canada

Jul 2024 – Jun 2026

Wally — Enterprise AI Analytics Agent

- Built and shipped a multi-agent system answering company-wide data and knowledge questions in natural language: one agent plans and executes SQL against the enterprise warehouse with step-by-step reasoning; a second retrieves answers from internal documentation via semantic search.
- Engineered the retrieval layer — embeddings + Milvus vector store — and a Cube.js semantic model (metrics, dimensions, joins) over GCP BigQuery tables of hundreds of millions of rows, so the agent generates governed, correct SQL rather than hallucinated table names.
- Designed the evaluation harness (Proctor): golden Q/A regression suites with LLM-as-a-judge scoring, plus explainability UX so users can verify how every answer was produced.

Impact: 10–15s response time vs. hours of analyst turnaround; 600+ users and 2,000+ queries/week in production

LLM-Powered Catalog Mapping — Amazon → Walmart Taxonomy

- Delivered spec → build → eval → rollout of a six-agent Python pipeline on GCP (GPT-5.1) mapping Amazon's product hierarchy to Walmart's internal taxonomy, using few-shot prompting with confidence thresholds and human-in-the-loop review for edge cases.

Impact: ~99.9% mapping precision vs. manual benchmarks; replaced 20 hours/week of manual work

MerchOne Data Platform — Data Quality Engineering

- Led enterprise-scale validation and SQL/Python ETL modeling from raw GCP sources to the front-end platform; authored data contracts and SLAs.

Impact: Release defects reduced from ~15 per release to near zero

Senior Data Scientist, FP&A — Canadian Tire Corporation

Feb 2023 – Jun

2024

- Designed causal inference frameworks — incrementality testing and marketing attribution modeling — measuring campaign effectiveness for the Triangle loyalty program on Netezza and data-lake sources.
- Built clustering-based customer segmentation and time-series sales forecasting models in Python/SQL; drove recommendations that informed personalized offers and loyalty retention strategy.
- Mentored junior analysts and translated statistical findings into decisions for marketing and FP&A stakeholders.

Senior Data Scientist — AcuityAds Inc

Feb 2022 – Jul 2022

- Led a team of six analysts building digital analytics frameworks for enterprise clients, owning delivery from requirements through rollout and adoption.
- Engineered a PowerBI reporting system integrating SQL and Salesforce data across 11 sales pods, eliminating 10 hours/week of manual reporting.

Data Scientist — AutomateEm Pvt Ltd

Dec 2018 – Dec 2021

- Built SQL/Python data pipelines and stored procedures automating recurring transformations; consolidated multi-database product data into analysis-ready models.
- Developed executive Tableau reporting as the primary analytics point of contact for product and sales teams.

Transaction Risk Investigator — Amazon India

Aug 2016 – Dec 2018

- Investigated suspicious transactions across global Amazon marketplaces, making pass/fail risk decisions from order history, account behavior, and payment signals.
- Built recurring fraud analytics in SQL/Tableau/Python; surfaced labeled investigation outcomes that informed ML fraud-detection model improvements.

EDUCATION

Bachelor of Technology - Electronics — Geethanjali College of Engineering & Technology 2013 – 2016

Diploma - Electronics — Government Institute of Electronics 2009 – 2013