

Sumanth Polisetty

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PROFESSIONAL SUMMARY

Senior AI and Data Science professional with over 7 years of end-to-end experience across Generative AI, Classical Machine Learning, and Software Engineering. Proven ability to architect and deploy enterprise-scale solutions, from high-performance REST APIs and Unified Identity Platforms to advanced predictive and NLP models. Deep expertise in orchestrating Multi-Agentive Workflows (LangGraph, Agent Core, Bedrock) and robust MLOps frameworks (AWS/Azure). Successfully led an automation initiative that leveraged intelligent agents and the Model Context Protocol (MCP) to reduce a month-end financial process cycle time by over 90%, from multiple days to just 2 hours.

TECHNICAL SKILLS

- **GenAI & LLMs:** Agentic RAG, Multi-Agentive Systems, LangGraph, Model Context Protocol (MCP), AWS Bedrock, AgentCore, OpenAI, Claude, LangChain, Cohere, Streamlit, Chainlit.
 - **MLOps & Cloud:** AWS (SageMaker, Lambda, OpenSearch, ECS, ECR), Azure (AKS, Azure AI Foundry, Cognitive Search, Azure OpenAI).
 - **Data Science:** Python, Scikit-learn, Transformers, Pytorch, Tensorflow, Hugging Face, Pandas, NumPy, Fasttext, Vector DBs (FAISS, ChromaDB, opensearch).
 - **Engineering & Tools:** GIT, Jmeter, Postman, VS Code, Claude Code, Kiro, cursor.
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PROFESSIONAL EXPERIENCE

Tavant (Client: Twitch/Media & Entertainment) | Santa Clara, CA, USA

Senior Data Scientist | June 2025 – Present

- **Architected and deployed multi-agent workflows** using **LangGraph** and **Agent Core** on **AWS Bedrock**, automating the month-end financial close process and **reducing cycle time from multiple days to 2 hours (90%+ efficiency gain)**.
- Led the design and implementation of **Agentic RAG systems** to support the Fintech team, enhancing workflows for the CFO and finance business teams.
- Engineered a secure, enterprise-grade **Model Context Protocol (MCP) server solution** with remote endpoints to streamline high-stakes financial operations and securely interact with payment data from different source systems across SAP, Coupa, Tipalti.
- Enhanced LLM data security and privacy by implementing **Presidio** for the handling of **PII** (Personally Identifiable Information) and sensitive enterprise data, ensuring compliance.

Tavant | Bengaluru, India

Data Scientist (GenAI Center of Excellence) | Jan 2023 – June 2025

- **Led GenAI COE initiatives**, architecting advanced Multi-Agentive and RAG solutions for Manufacturing and Mortgage platforms; implemented search systems, Chatbots, and triage-based interfaces on enterprise data.

- Designed and implemented scalable AI/ML models to support manufacturing and mortgage analytics use cases, driving efficiency in predictive analytics, pricing models, and decision-making processes.
- Implemented Generative AI use cases on enterprise data: search systems, Q&A, Chatbots interfaces, and Triage-based systems.
- Worked on **MLOPS pipelines** to deploy and monitor machine learning models on **AKS (Azure Kubernetes Service)**, managing production machine learning models.

Tavant | Bengaluru, India

Associate Data Scientist | Oct 2021 – Dec 2022

- Developed demand forecasting models with temporal fusion transformers and implemented anomaly detection/failure prediction on IOT sensor data.
- Implemented **anomaly detection model** and **failure prediction** on IOT sensor data.
- Designed and developed **semantic search engine** using **Azure cognitive search service** on enterprise data.
- Designed and developed **NLP classification model** using **Fasttext** and **FAISS** on English and Japanese text data.
- Implemented **keyphrase extraction system** on text data.

McAfee | Bengaluru, India

Software Development Engineer (SDE 2) | Aug 2018 – Oct 2021

- **Designed a Unified Identity Platform** (utilizing **OAuth 2.0**) that centralized authentication for diverse consumer products and OEMs, significantly **reducing maintenance overhead**.
- Optimized performance of **REST APIs by 25%** and **reduced 50% calls** to backend platforms through implementation of **AWS Lambda-based serverless functions** with **Node.js, Typescript**.
- Developed a compliance platform (**Microservice and Windows Service solutions**) to support **CCPA, GDPR** for user's data.

CERTIFICATIONS & TRAINING

- **AWS Certified Machine Learning – Specialty**
- **Microsoft Certified: Azure Data Scientist Associate**
- **AWS Certified Developer – Associate**

AWARDS

- Tavant Excellence Award - 2023, 2025
- McAfee Innovation Summit Top 5 in Hack The Flag contest
- Winner of McAfee Geekathon Contest (2019)

EDUCATION

BMS College of Engineering | Bengaluru, India

Bachelor Of Engineering (Information Science) | GPA: 9.24/10 | Aug 2014 – May 2018