SURIYAKANTH R

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PROFESSIONAL SUMMARY

Results-oriented AI and Data Engineering professional specializing in Generative AI implementations and enterprise integrations. Experienced in designing LLM-powered agents, API-driven workflows, and scalable backend systems that deliver measurable business outcomes. Passionate about bridging technical systems and customer impact — crafting, deploying, and optimizing AI agents that solve real business problems end-to-end.

PROFESSIONAL EXPERIENCE

Member Technical Staff

Haiva Inc — Chennai, Tamil Nadu   *June 2024 – Present*

- Architected and implemented **scalable backend services** for AI-driven agent workflows using Python (Flask, FastAPI), serving as a **founding engineer** and **core contributor** to the platform.
- Built dynamic **agent orchestration** infrastructure enabling configuration of models, instructions, and external API integrations for **enterprise-grade deployment**.
- Designed modular **Generative AI pipelines** integrating advanced LLMs (OpenAI, Vertex AI, Groq, DeepSeek) to power intelligent reasoning, decision-making, and customer-facing interactions.
- Engineered comprehensive **agent frameworks** — Knowledge Agents (retrieval), Analytics Agents (NL-to-SQL-to-Insights), Outreach Agents (Telephony, WhatsApp, Email, SMS), and **Integration Agents** (API connectors and enterprise workflows).
- Developed secure, extensible **middleware** enabling low-latency communication across agents, databases, and third-party systems, ensuring reliable real-time execution.
- **Collaborated with product and customer teams** to tailor GenerativeAgent implementations for business use cases, driving measurable impact and adoption.
- Designed and deployed a **universal webhook handler** supporting real-time agent triggering from external applications, improving system responsiveness and automation coverage.
- Led development of a **plug-and-play integration layer** supporting adaptive connections to diverse APIs, CRMs, and databases—accelerating integration setup for new customers.
- Delivered **credit-based usage and subscription systems** powering agent monetization, with automated **Stripe Connect** workflows for revenue distribution and partner billing.
- Created reusable **agent template workflows** enabling rapid configuration and deployment of customer-ready AI agents, enhancing platform scalability and ease of onboarding.
- Spearheaded **Azure Marketplace integration**, expanding enterprise accessibility and accelerating adoption of Haiva's AI Agent platform across organizations.

Developer Intern

Linx Works (apiplatform.io) — Bangalore, Karnataka   *Dec 2023 – May 2024*

- Engineered core backend services for a **conversational AI analytics assistant**, enabling customers to interact with enterprise data through natural language queries across web and mobile interfaces.
- Designed and deployed **NLP and prompt-based workflows** using Python and transformer models to translate business questions into accurate, executable SQL queries.
- Built a resilient **query execution engine** supporting multiple SQL dialects (PostgreSQL, MySQL, BigQuery, etc.) with dynamic SQL generation and schema abstraction, ensuring seamless integration with diverse data systems.
- Collaborated with customer stakeholders to refine query accuracy and response relevance through iterative testing and real-world feedback loops.
- Integrated real-time **visualization pipelines** using Chart.js, D3.js, and Highcharts to transform raw query results into interactive, insight-rich dashboards—enhancing customer understanding and decision-making.

Data Analyst Intern

Saks OFF 5TH — Bangalore, Karnataka   *June 2022 – Dec 2022*

Customer Segmentation

- Designed and implemented customer segmentation using behavioral **clustering algorithms** and **RFM** (Recency, Frequency, Monetary) analysis to categorize users into actionable cohorts.
- Enabled personalized marketing campaigns by identifying **high-value** and **at-risk customers**, leading to improved targeting and increased engagement rates.

Conversion Funnel Analysis and Attrition Modeling

- Analyzed user behavior across the **conversion funnel** to uncover friction points and understand the underlying causes of conversion drop-offs.
- Developed **attrition models** to predict user disengagement based on early behavioral signals, enabling timely interventions and retention strategies.
- Designed **early-warning KPIs** and monitoring frameworks to proactively address softness in conversion rates, reducing customer churn risk.

Ad Hoc Analytics and Engagement Insights

- Performance evaluation of the loyalty program to **identify retention drivers** and inform targeted lifecycle campaigns that improved customer retention.
- Analyzed **engagement metrics** such as session duration and scroll depth to propose UX enhancements, leading to a 19% increase in average session time.

EDUCATION

Integrated Masters in Data Science

PSG College of Technology — Coimbatore, Tamil Nadu   *June 2019 – May 2024*

PROJECTS & ACHIEVEMENTS

OptimBasket — *Portfolio Optimization Tool*

- Designed a Python-based investment tool using Principal Component Analysis (PCA) for optimal stock basket construction
- Implemented algorithmic portfolio weight calculation that maximized diversification while minimizing risk exposure

Manifesto AI — *AI tool simplifying political manifestos for informed voting* (Ongoing)

AI Emotional Companion — *Niche-focused AI for emotional support* (Ongoing)

Additional Achievements

- Awarded 2nd rank at the zone level for the project on "Help Chennai Rebuild" demonstrating dedication and excellence in contributing towards community rebuilding efforts
- Managed personal investment portfolio since 2021, applying quantitative and analytical skills with above-market performance.

TECHNICAL SKILLS

Programming: Python SQL TypeScript C++ C R

AI/ML: LLMs NLP MCP Machine Learning RAG Data Visualization Statistical Modeling

Frameworks & Libraries: Flask FastAPI PyTorch TensorFlow Scikit-learn Pandas Matplotlib Plotly D3.js

Integrations: API Webhooks Knowledge Bases Database Connectors Third-Party APIs Enterprise Data Pipelines

Tools & Platforms: OpenAI AWS Vertex AI Stripe Jenkins GitHub Jira Confluence Tableau Postman