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Natan Schons

Data Scientist | AI Engineer

medium.com/@natanschons
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Technical Skills

Programming	**Proficient**: Python, SQL **Experience**: SPARQL, Java
Tech Stack	FastAPI, PydanticAI, LangChain, LangGraph, Scikit-Learn, SAP AI Core, SAP Datasphere, SAP BTP, SAP HANA Cloud, SAP Business Data Cloud, SAP Analytics Cloud, Git, LLMs, RAG, GraphRAG, AI Agents, Knowledge Graphs, Vector Stores
Languages	Portuguese (Native), English (Fluent | BEC Higher), German (Fluent | PWD), Spanish (Fluent | DELE C1)

Experience

Data Scientist **Feb 2026 — Present**
SAP *Sao Leopoldo, BR*

- AI-focused Data Scientist building intelligent solutions to streamline internal translation workflows. I specialize in translating complex software engineering requirements into applied data science feasibility.
- Co-led cross-functional initiatives spanning end-to-end RAG pipelines, LLM orchestration, Knowledge Graphs, and vector store management to deliver secure, production-ready AI applications on enterprise cloud infrastructure.
- Co-led RAG-powered AI agent development on SAP BTP (Python, LangChain, PydanticAI, LLMs), leveraging real-time APIs to query SAP documentation, which helped dozens of translators receive accurate responses via semantic search, streaming inference, and A2A integrations.
- Guided the design of an end-to-end knowledge graph pipeline based on proprietary terminology, business-specific ontologies, and data engineering best practices to successfully ingest, treat, and store over 5 million SAP terms.
- Developed a GraphRAG-powered retrieval service (Python, FastAPI, SAP AI Core) to automate terminology recommendations, combining graph traversal, fuzzy SPARQL lookup, and hybrid search (cosine similarity + Keyword Search with Reciprocal Rank Fusion).
- Optimized Terminology Knowledge Graph architecture, reducing redundant triples by 90% to enhance semantic search precision and strengthen overall GraphRAG performance.
- Architected scalable ETL pipelines leveraging SAP Datasphere, SAP HANA Cloud, and SQL to guarantee reliable data ingestion for downstream AI workflows.
- Guided team excellence as Scrum Master, facilitating agile ceremonies, optimizing delivery processes and leading internal lectures on AI and software engineering best practices.

Analytics Consultant **Aug 2024 — Feb 2026**
SAP *Sao Leopoldo, BR*

- As an AI Research Analyst in the SAP BTP Technical Services Fellowship, I developed an intelligent chatbot leveraging LLMs, RAG, AI Agents, Vector Databases, and Python, by collaborating on strategic AI initiatives, which resulted in driving automation, fostering adoption, and accelerating innovation across the platform.
- Delivered services for 30+ customers in three languages, acting as both a technical and functional consultant with expertise in SAP Datasphere, SAP Analytics Cloud, and AI features across SAP Analytics products.
- Developed predictive analyses and interactive dashboards with SAC, enabling customers to make faster, data-driven decisions.
- Designed and led POCs with SAP Datasphere and SAC, accelerating client adoption of scalable solutions.

- Built integration and replication scenarios between Datasphere and SAC, consuming S/4HANA CDS Views and replicating data across systems via seamless ETL pipelines.
- Improved performance in Datasphere data modeling and replication tasks through query and task chain optimization.
- Translated complex technical concepts into clear insights for stakeholders, accelerating decision-making, while collaborating daily in Portuguese, English, and Spanish with global teams.

IT Analyst **Feb 2022 — Aug 2024**
STIHL *Sao Leopoldo, BR*

- Construction of Power BI Dashboards for Indicators in the Applications Team, helping decision-making and increasing department autonomy.
- Member of the Global Digital Collaboration team as IT Support, where I collaborated with a multicultural team, using German and English on a daily basis.
- Drove innovation with Microsoft Power Platform and Microsoft 365 tools, such as Power Automate, Power Apps, Power BI, Exchange Online, and SharePoint.
- Took part in the global rollout of the Power Platform across the entire STIHL Group, where I developed governance workflows, applications, and dashboards using Power Automate, Power Apps, and Power BI.
- Responsible for the development of the STIHL HUB | Brazil with SharePoint, modernization of the communication site and 90% reduction in the use of high code.

Education

Bachelor of Science, Computer Science, *Unisinos* 2024 — 2028
Algorithms, Databases, Machine Learning, Artificial Intelligence, Agile Methodologies, Data Structure and Algorithms

Kaufmann fur Digitalisierungsmanagement, Duale Ausbildung, *Berufsschule am Colegio Humboldt* 2022 — 2024
Software Engineering, Machine Learning, Artificial Intelligence, Big Data, Cloud Computing, IT Management, Finance

Activities

- **Project Manager & Team MVP SAP Innoweeks 2025 (SnapFlow)**
  Delivered an AI-powered mobile solution on SAP BTP that streamlined the goods receipt process. Built SAC dashboards and Datasphere models. The project won Best Implementation and Best Pitch for its scalable architecture, seamless UX, and immediate business value.
- **Project Leader & Architect Brand Data Challenge 2025**
  Awarded Ambassador Award for the best partner use case by integrating Adobe's AI solution with SAC, SAP Datasphere, and Databricks to deliver an end-to-end branding intelligence solution. Designed ETL pipelines in Datasphere, ML use cases in Databricks, and end-user dashboards in SAC.
- **obriefing.com.br**
  Building obriefing.com.br, an AI-powered media intelligence platform for PR and communications agencies in Brazil. It watches the news portals so the team starts the day with the coverage and the openings that matter for each client.
- **Academic Research & Content Creation**
  Voluntary Scientific Initiation in RAG Optimization with Reinforcement Learning and Generative AI at Unisinos. Active Data Science and AI Engineer Content Creator on Medium and LinkedIn.