

Álvaro Yuste Valles

AI Engineer | GenAI & Cloud

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PROFESSIONAL SUMMARY

AI Engineer specializing in Generative AI and cloud-native deployment. I build and ship production LLM systems — multi-agent architectures (LangGraph), RAG pipelines, and tool-using agents — backed by robust Python APIs, automated CI/CD on Google Cloud Platform, and end-to-end observability. Proven record of turning AI prototypes into reliable, monitored services for real clients, with a strong industrial-engineering grounding in measurable business impact.

SKILLS

- **Generative AI & LLMs:** LLMs, Generative AI, RAG, multi-agent systems, agentic workflows, prompt engineering, LangChain, LangGraph, LangSmith, Azure OpenAI, vector databases, embeddings
- **Programming & Backend:** Python, FastAPI, SQLAlchemy, Pydantic, REST APIs, ETL pipelines, SQL
- **Cloud & MLOps:** Google Cloud Platform (Cloud Run, Cloud SQL, Artifact Registry, BigQuery), Azure DevOps, CI/CD, Docker, model evaluation, monitoring & observability
- **Engineering practices:** LLM-as-judge evaluation, automated testing (pytest, Pylint), human-in-the-loop design, cross-functional collaboration

EXPERIENCE

AI Engineer (GenAI & Cloud) — Dentsu

Jan 2026 – Present

Madrid, Spain · AI & Transformation team

- Design and ship production multi-agent LLM systems with LangGraph (a hierarchical supervisor orchestrating specialized subagents) for GenAI and cognitive automation, embedded into internal tools and serving live client workloads.
- Build high-performance Python APIs (FastAPI, SQLAlchemy) and ETL pipelines, with dynamic Jinja2 prompting and Pydantic-validated tool layers that resolve 60+ relational data tables.
- Engineer an automated agent evaluation framework: pass@k testing with LLM-as-judge, deterministic tool-routing assertions, and unit/integration tests, with results tracked in BigQuery.
- Own end-to-end CI/CD to Google Cloud Platform (Cloud Run, Cloud SQL, Artifact Registry) via Azure DevOps, with automated multi-environment deployments and full observability through LangSmith and a custom BigQuery monitoring layer.
- Integrate LLMs via Azure OpenAI and design production guardrails — human-in-the-loop confirmation, sandboxed code execution, loop detection — for safe, reliable agent execution.

AI Researcher — Universidad CEU San Pablo

Jan 2025 – Sep 2025

- Developed a deep-learning solution to detect and classify rotator-cuff calcifications (CNNs for image analysis, ML for diagnostic classification), in collaboration with radiologists at Hospital Universitario Rey Juan Carlos.

Process Engineer — Signify (Philips Lighting)

Mar 2023 – Dec 2025

- Built AVA, an agentic AI assistant (RAG + multi-agent backend, Streamlit UI with Microsoft authentication) that streamlined access to industrial data and decision-making.
- Led end-to-end industrialization of a battery-packer assembly line (layout, process flow, tooling, ramp-up to serial production), including an on-site assignment in China.
- Delivered automation and digitalization solutions across assembly lines: computer-vision inspection, poka-yoke, and AGV/AMR logistics integration.

Project Launch Manager / Process Engineer — Grupo Antolín

Jun 2021 – Mar 2023

- Led industrialization of the Mercedes-Benz G-Class leather-roof line and automated material flows (AGVs, ZUND CNC cutting), driving quality and efficiency through to serial ramp-up.

EDUCATION

M.Sc. in Artificial Intelligence & Big Data — Universidad CEU San Pablo

2024 – 2025

Best Academic Record (top of class)

M.Sc. in Logistics — Universidad de Valladolid

2022 – 2023

Michelin Award – Best Master's Thesis (Process Organization)

B.Sc. in Industrial Electronics & Automation Engineering — Universidad de Valladolid

2017 – 2022

CERTIFICATIONS

- CS50x: Introduction to Computer Science & CS50P: Introduction to Programming with Python — HarvardX (2024)

LANGUAGES

Spanish — Native · English — Professional working proficiency (B2+, targeting C1)