

Sergio Gómez Martín

AI / ML Engineer

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Madrid, Spain

SUMMARY

AI / ML Engineer with a Master's in Artificial Intelligence and a background in Software Engineering and Business Administration. Experienced in LLM agents, machine learning, deep learning, and data pipelines, with a strong interest in designing applied AI systems while understanding, adapting, and evaluating the models behind them. Focused on solving real-world problems through technically sound and impactful AI solutions.

PROFESSIONAL EXPERIENCE

AI Engineer Jan 2025 – Present
Accenture AI Gijón, Spain

- Took technical ownership of a large-scale aerospace data pipeline processing 600M+ asset-tracking events, reducing Spark compute hours by 65% and improving performance of the critical processing node by 87.3%; the resulting application was designed for 300+ enterprise users.
- Collaborated directly with client stakeholders to translate asset-tracking requirements into scalable data workflows supporting global asset monitoring and route planning.
- Designed a LangGraph-based multi-agent system for a pharma client to support stock rebalancing across logistics centers through natural language, considering transport costs, resource idle costs, and operational constraints.

Machine Learning Engineer Aug 2023 – Aug 2024
Ikerlan San Sebastián, Spain

- Developed an AWS-based data storage system used to serve ML models in predictive maintenance use cases, using more than 10GB of real industrial data as part of my Computer Engineering BSc thesis.
- Designed a decision-support tool to evaluate whether internal research projects could become the foundation for new startups, contributing to venture-building initiatives later followed by the creation of an AI startup.

PROJECTS

Elvex: Autonomous Architecture for Generation and Coordination of LLM Agents 2025 – Present
Research Project

- Designed a multi-agent AI architecture that dynamically generates and coordinates specialized LLM agents to decompose and solve complex general-purpose tasks.

EDUCATION

MSc in Artificial Intelligence 2024 – 2025
Universidad Internacional de La Rioja (UNIR) Logroño, Spain

- GPA: 9.7 / 10.
- Relevant coursework: Natural Language Processing (NLP), Deep Learning, Computer Vision, ML, AI Agents.

BSc in Computer Engineering 2019 – 2024
Universidad del País Vasco (UPV) Vitoria, Spain

- Final thesis grade: 9.6 / 10.
- Exchange programs: Poznan University of Technology (Erasmus+), Universidad Politécnica de Cataluña (SICUE).

BSc in Business Administration and Management 2019 – 2024
Universidad del País Vasco (UPV) Vitoria, Spain

- Final thesis grade: 9.5 / 10.

ADDITIONAL INFORMATION

- **Technical Skills:** Python, Java, SQL, AWS, Spark, Git, VS Code, Scikit-learn, Pandas, PyTorch, OpenCV, spaCy, Matplotlib, LangGraph.
- **Languages:** Spanish: Native, English: C1, German: B1.
- **Awards:** Top 25 thesis project conducted with external entities among more than 2,000 UPV theses – iGazte Program.