

Stefano Segnini

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AI Engineer and Data Scientist with over 3 years of experience developing machine learning, deep learning, and generative AI solutions. Specialized in LLM fine-tuning, RAG-based architectures. Experienced in deploying ML systems on Azure with strong MLOps practices. Adept at translating business needs into data-driven solutions, with a proven track record of improving customer retention, lead conversion, and operational efficiency. Background spans both tech startups and industrial environments.

PROFESSIONAL EXPERIENCE

HandL Digital

Data Scientist JR

Remote, Texas

February 2023–February 2024

- Developed a customer churn prediction model using supervised ML (XGBoost, Random Forest), reducing churn by 25%.
- Led a team of 4 data scientists to develop targeted marketing models, increasing lead conversion by 35%.
- Designed and deployed ML pipelines on Azure using MLflow, improving deployment times by over 80%.
- Built ETL pipelines to integrate data from APIs, SQL databases, and structured files, improving data quality and availability.
- Created dynamic dashboards using Power BI, transforming large data volumes into actionable business insights.

Freelance

Scientist/Data Engineer

Remote

April 2024 - November 2024

- Built intelligent chatbots using multi-LLM orchestration, improving response times and boosting user conversion by 40%.
- Developed NLP pipelines with Apache Spark and external APIs for semantic extraction from legal and technical texts.
- Created deep learning models to predict delivery times and optimize routing, reducing fleet operation costs by 30%.

Industrial Technology Company (Parsec)

Ai Engineer

Remote

January 2025 - September 2025

- Led an end-to-end GenAI project with a cross-functional team, implementing RAG techniques and AI Agents to enhance company-wide productivity and information analysis.
- Designed and deployed scalable architectures on Azure using Docker and MLOps (MLflow, Azure ML), ensuring reproducibility and efficiency in training and deployment cycles.
- Fine-tuned custom LLMs for classification and text generation, increasing model accuracy by 15%.
- Integrated custom LLMs into production pipelines, enabling more contextual responses and reducing analysis time by 30%.
- Developed customized Anthropic MCPs to improve multi-turn conversational consistency in LLM agents.

EDUCATION

Iutirla University

Technologist in Informatics

Puerto La Cruz, Venezuela

Sep 2022

SKILLS

- **IA Generativa y NLP:** LLMs · Fine-Tuning · Prompt Engineering · RAG · NLTK · OpenAI · Claude · LangChain · MCP (Anthropic) · Hugging Face · LangGraph · LangSmith
- **Data Science y ML:** Scikit-Learn · TensorFlow · PyTorch · Keras · Matplotlib · Plotly · Deep Learning · Model Evaluation · Feature Engineering
- **MLOps y Backend:** Azure ML · Docker · MLflow · FastAPI · Git · RESTful APIs
- **Automation:** n8n · Airflow
- **Big Data y ETL:** PySpark · SQL · Pandas · Numpy · Data Wrangling
- **Visualization:** Power BI · Dash · Streamlit
- **Lenguajes:** Python · SQL · JavaScript · C++ · R
- **Idioms:** Spanish (Native) · English (Intermediate B2)