

# 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
- Idiomas:** Spanish (Native) · English (Intermediate B2)