**Agustín Federico Stigliano**

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**DS & ML Engineer - Generative AI Developer**

I started with **Python** in 2014, and by 2021, I began formal studies in this programming language. Having completed almost the entire degree in **Electromechanical Engineering**, I took my first steps in **Data Science and Machine Learning**, supported by a strong background in Mathematics and Physics. I then started developing my first **web applications** focused on the **back end**, achieving certification from MercadoPago for my e-commerce platform. For over a year, I have dedicated myself to implementing AI models to create applications that provide solutions in **NLP** and **Generative AI**.

**Work Experience**

**QA Tester & Prompt Engineer (RLHF) at Scale AI** [link](https://scale.com/)

*January 2024 to date*

*LLM fine-tuning by reinforcement learning by human feedback technique.*

* Evaluate and comparison of LLM responses
* Guidance of multiple LLMs through a turn-by-turn conversation
* Experience in conversational agents, tool logs agents, and coding agents
* Generating edge complex cases for model training

**Machine Learning Engineer at Anyone AI** [link](https://anyoneai.com/)

*November 2023 to April 2024*

*Highly selective fellowship program where top talent comes to accelerate their machine learning careers.*

* Develop a Generative AI Chatbot for an Insurance Policy Company using LangChain
* Implementation of the OpenAI API and Cohere rerank
* PDF RAGs
* Web Scraper RAGs
* Application design with a microservices architecture using Docker
* Creating a User Interface chatbot using Chainlit

*Main Technologies: Langchain, Chainlit, Apache-Airflow, Scikit-Learn, Keras, LightGBM, Matplotlib, Seaborn, Pytest, Docker, Flask, Redis, Qdrant*

**Data Scientist and Python Developer at Reputacion Digital** [link](http://reputacion.digital)

*September 2023 to November 2023*

*"Social Listening" for monitoring social networks with NLP tools for trend topic detection, sentiment analysis, and reporting.*

* Implementation of fine-tuned LLM on HuggingFace for NLP purposes.
* Data visualization through customizable Word Clouds, Time Series, graphs of donuts in polar coordinates, pie charts, bar charts, and histograms.
* Building customizable tools for data analytics reports
* Optimization of model ingest through multithreading or data streaming (+10 times faster)
* Optimization of ensemble models in parallel executions (+2 times faster)
* Prompt Engineering for role-playing LLM, focused on creating speeches for audiences

*Main Technologies: Pandas, HuggingFace, Python concurrent, Plotly, Bokeh, wordcloud, NLTK, Spacy, tiktoken, Pydantic*

**Backend Web Developer at Cassaro Chopp** [link](https://www.choppcassaro.com.ar/)

*June 2023 to July 2023*

*Beer Factory since 1984 - equipment rental - sale of products - recharging fire extinguishers.*

● Digitization of the lease contract for the rental of equipment developing an API REST connected to a database.

● Creation of a beta frontend interface to show the functionality of the API

● Proposal for an API interface for the transparent generation of draws and raffles

*Main Technologies: FastAPI, Pytest, PostgreSQL, Pydantic, SQLAlchemy, OAuth2, React.JS*

**Python Online Teacher at Classgap** [link](https://www.classgap.com/es-ar)

*January 2023 to June 2023*

*Web Platform for reaching students from all parts of the world.*

● Explanation of Data Science project and the technologies involved.

● Media content creation for asynchronous classes.

● Student's guidance to complete courses about Data Science.

*Main Technologies*: Python, Jupyter Notebook, Python Standard Library, PiPy, Python Package.

**Freelance Project**

**OCR GPT Assistant** [link](https://github.com/jackonedev/OCR_to_db)

**Optical Character Recognition plus LLM with tools (GPT)**

**Less than 3 weeks of development (*July 2024*):**

* Week 1: Study of the Technologies and the Case
* Week 2: Building CI Pipelines and implementing the Tesseract model (plus documentation)
* Week 3: Implementing OpenAI GPT with schematization tool, microservices infrastructure (plus documentation)

The application aims to automate the recording of daily physical documents within a relational database. The application contains two models, Google Tesseract as an optical recognition engine, and OpenAI GPT with tools that allow you to fill predefined tables based on the text extracted from the image.

*Main Technologies*: GitHub Actions, Docker, RabbitMQ, Tesseract, LangChain, FastAPI, Pydantic, Pytest

**Skills**

**Python Libraries and Frameworks:**

* DS & ML LIBRARIES:
  + Numpy, Pandas, Scipy, Scikit-Learn, XGBoost, LightGBM, Spacy, NLTK
* GenAI FRAMEWORKS:
  + LangChain, LangGraph, Transformers, Pytorch, Tensorflow Keras
* VISUALIZATION LIBRARIES:
  + Plotly, Bokeh, Seaborn, Matplotlib.pyplot, Matplotlib.animations
* BACKEND FRAMEWORKS:
  + FastAPI, Flask, Django, Pydantic, SQLAlchemy, Pytest

**Databases and Vector Store:**

* SQLite
* PostgreSQL
* Qdrant

**Infrastructure and Orchestration Tools and Technologies:**

* Apache-Airflow
* MLFlow Tracking
* RabbitMQ
* Redis
* Docker
* GitHub Actions

**Frontend Development (Basic):** HTML/CSS, React.JS, PyScript, Bootstrap

**Development and Deployment Tools:**

* GitHub Codespaces
* Deta Space
* Heroku
* PythonAnywhere
* Microsoft Azure

**Interactive Data Presentation Tools:**

* Jupyter Notebook
* Mercury
* ChartStudio

**SDK's:** MercadoPago SDK, Meta SDK (Whatsapp Business), Binance SDK, OpenAI SDK, Cohere SDK

**Soft Skills:** Scrum agile methodology

**Languages:**

* **Fluent** in English
* **Native** Spanish
* **Basic** Italian

**Education**

**Electromechanical Engineer (UNC - FCEFyN)**

**Universidad Nacional de Córdoba - Facultad de Ciencias Exactas, Físicas y Naturales**

2014 – 2020 (on hold)

* No degree obtained
* 37/50 approved subjects
* 7,67 general average
* Scholarship of a year to work in the Low Voltage Laboratory
* Enabling registration as a provincial electrician

**Certifications**

**Multimodal RAGs: Chat with videos - DeepLearning.ai** Oct 2024

**Machine Learning Engineer – Anyone AI** Nov 2023 – Apr 2024

**Neural Networks and Deep Learning – DeepLearning.ai** Oct 2023

**Checkout Pro Integrator – Mercado Pago Developers** Aug 2023

**Prompt Engineering for ChatGPT – Vanderbilt University** Jul 2023

**PyScript 101 – Udemy** Jul 2022

**Data Science Bootcamp – Digital House** Dec 2021 - Jul 2022

**Python API Programming with FastAPI and Flask – Udemy** Jul 2022

**Statistics and probability for Quantitative Finance - Quantreo** Apr 2022

**Introduction to Python Programming - Coursera** Aug 2021