ANGEL MANSILLA

Data Scientist | AI & Machine Learning Engineer

Rio de Janeiro, Brazil | angejesufern@gmail.com | +55 (21) 99859-5855
linkedin.com/in/angel-mansilla-ai | www.angelmansilla.com.br | github.com/Ang3k

PROFESSIONAL EXPERIENCE

Junior AI Engineer at **RapidCanvas** (10/2026 - Present)

- **Demand forecasting**: Data and ML engineering for a **raw material planning** solution for an industrial client, with **consumption forecasting** in LightGBM: integration with the **Epicor ERP** and database migration to **MySQL** with row-by-row verification. Technologies: Python, MLflow, FastAPI.

- **AI agents**: Work on a **claims automation** system for an insurance broker, with **LLM agents** that extract data from documents and a **rules engine** that validates each case; mapping of the workflows and a **persistence proposal** in MySQL. Technologies: Python, FastAPI.

ML Engineer Intern at **Genesis Data Culture** (08/2025 - 10/2026)

- **Machine Learning**: Implemented models for **failure prediction** in electrical equipment, with data extraction and processing via **FastAPI** and algorithms ranging from Linear Regression to Autoencoders, **reducing maintenance costs**. Technologies: Python, Pandas, Scikit-learn, PyTorch.

- **Automation**: Built a **data pipeline** for the **collection, standardization and loading** of industrial data via APIs and Excel spreadsheets, **automating** the process and loading it into **PostgreSQL** with Prisma ORM, ensuring **integrity and efficiency** for future use. Technologies: Python, Pandas, PostgreSQL, Prisma.

- **Endpoints**: Developed **RESTful endpoints** in FastAPI for batch **ML model training and prediction**. Versioning with **MLflow**, storage in **MinIO** and asynchronous processing. Technologies: Python, FastAPI, Scikit-learn, MLflow, MinIO, Docker.

EDUCATION

B.Sc. in Computer Science, **UFRJ** (Federal University of Rio de Janeiro) — 7th semester (07/2023 – 12/2027)

- Team: Member of the Development Team at **UFRJ Analytica** (05/2025 - Present)

TECHNICAL SKILLS

- **Programming languages**: Python, SQL
- **Databases**: MySQL and PostgreSQL
- **Version control**: Git and GitHub
- **Libraries:** Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, PyTorch, LightGBM, XGBoost, Optuna
- **APIs and generative AI**: FastAPI, LLM agents and data extraction from documents
- **MLOps/DevOps**: MLflow, Docker, Docker Compose, Poetry

PROJECTS

Dengue Sense — Differential Diagnosis Support System for Arboviral Diseases

- Built a **weighted ensemble** for the differential diagnosis of **dengue, Zika and chikungunya** on ~480k national epidemiological notifications (2017–2019). Architecture with **categorical embeddings** and optimization focused on **clinical recall**, reaching **88% recall** without relying on laboratory tests. Technologies: Python, LightGBM, XGBoost, PyTorch, Pandas.

LANGUAGES AND SOFT SKILLS

- **Portuguese**: Native | **English**: Fluent / Very Advanced (C1) | **Spanish**: Fluent (C1)
- **Soft skills**: clear communication, analytical thinking, autonomous collaboration and adaptability