

Pedro Ivo Santos Leite

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PROFESSIONAL SUMMARY

Currently pursuing a Master's degree in Computer Science (AI and Machine Learning) with a solid background in IT, specializing in the development of intelligent solutions for agribusiness. Expertise in creating predictive models for beef and dairy cattle farming, using advanced techniques in Machine Learning, Time Series, and IoT data analysis. Hybrid profile combining academic rigor with practical experience in systems infrastructure, focused on transforming complex data into operational forecasts of high strategic value for the agricultural sector.

EDUCATION

Instituto Federal de Campina Grande

Master's student in Artificial Intelligence and Machine Learning

2025 – Atual

Campina Grande, PB

- Research focused on Deep Learning applied to Animal Phenotyping or Time Series for Agribusiness.
- Subjects: Statistical Methods, Advanced Topics in Software Engineering.

Universidade Federal da Paraíba

Bachelor of Arts in Computer Science, Minor in Electronic Engineering

Campina Grande, PB, Brasil

Jan. 1975 – Dec 1975

Universidade Federal da Paraíba

Post-Graduating Studies in Computer Science

Campina Grande, PB, Brasil

Jan 1980 – Dec 1980

EXPERIENCE

ITFPB - Machine Learning Researcher (Master's)

Precision Livestock Project

2024 – Present

Campina Grande, Brazil

- Developing **Time Series Forecasting** models for milk production and cattle weight gain prediction.
- Processing high-volume data from IoT sensors and historical farm records for agribusiness optimization.
- Applying **Feature Engineering** techniques to biological and climatic variables, including the Temperature Humidity Index (THI).

Intelicampo - Intelligent Farming

IT Project Manager

2013 – Present

Brazil

- Leading IT initiatives in the **Agribusiness** sector, focusing on digital transformation and data-driven solutions for farm management.
- Overseeing project lifecycles to integrate technology into agricultural operations, enhancing productivity and operational control.

Intelicampo Info

pedroivoleite.github.io/Intelicampo

RBC Investor Services - Worldwide Banking

Systems Analyst / IT Project Manager

2007 – 2013

Canada

- Acted as both Systems Analyst and Project Manager in the **Financial Services** industry, managing complex systems for international investors.
- Optimized financial software workflows and ensured high availability of mission-critical systems in a global banking environment.

Companhia Hidro Elétrica do São Francisco) - Energy Management System

1978 – 1999

IT Systems Developer

Brazil

- Developed core IT systems for the **Energy** sector, contributing to the automation and digitalization of large-scale infrastructure.
- Built and maintained software solutions for utility management and operational data processing.

PROJECTS

AgroPredict: ML for Livestock Performance | *Python, XGBoost, Scikit-learn, Streamlit* 2024

- Development of machine learning models to predict average daily weight gain (ADG) in beef cattle and daily production in dairy systems.
- I implemented Feature Engineering techniques to integrate thermal imaging (THI) and nutritional sensor data, increasing the model's accuracy by 18% compared to traditional statistical methods.
- Utilizei **XGBoost Regressor** com otimização de hiperparâmetros (Bayesian Optimization) para lidar com a sazonalidade e ruídos dos dados de campo.
- I built an interactive dashboard in Streamlit for visualizing operational KPIs and simulating productivity scenarios for rural managers.

Meteorological Data Pipeline for IoT | *Python, PostgreSQL, Docker* 2024

- I structured an automated data capture system via meteorological APIs to enrich the databases of partner farms.
- I applied knowledge of Software Engineering (IT) to ensure the scalability of the system and the integrity of the data collected in real time.

TECHNICAL SKILLS

Languages: Java, Python (Pandas, Scikit-learn), C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

Frameworks: React, Node.js

TI/MLOps: Git

Libraries: Pandas, NumPy, Matplotlib

Agro Context: Average Daily Weight Gain (ADG), Lactation Curves, Heat Stress Analysis.