

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 <i>Master's student in Artificial Intelligence and Machine Learning</i> <ul style="list-style-type: none">Research focused on Deep Learning applied to Animal Phenotyping or Time Series for Agribusiness.Subjects: Statistical Methods, Advanced Topics in Software Engineering.	2025 – Atual Campina Grande, PB
Universidade Federal da Paraiba <i>Bachelor of Arts in Computer Science, Minor in Electronic Engineering</i>	Campina Grande, PB, Brasil Jan. 1975 – Dec 1975
Universidade Federal da Paraiba <i>Post-Graduating Studies in Computer Science</i>	Campina Grande, PB, Brasil Jan 1980 – Dec 1980

EXPERIENCE

ITFPB - Machine Learning Researcher (Master's) <i>Precision Livestock Project</i> <ul style="list-style-type: none">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).	2024 – Present Campina Grande, Brazil
Intelicampo - Intelligent Farming <i>IT Project Manager</i> <ul style="list-style-type: none">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.	2013 – Present Brazil
Intelicampo Info	pedroivoleite.github.io/Intelicampo
RBC Investor Services - Worldwide Banking <i>Systems Analyst / IT Project Manager</i> <ul style="list-style-type: none">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.	2007 – 2013 Canada
Companhia Hidro Elétrica do São Francisco) - Energy Management System <i>IT Systems Developer</i> <ul style="list-style-type: none">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.	1978 – 1999 Brazil

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.