

# JOSÉ CARLOS FERREIRA NETO

## Data Scientist

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## PROFESSIONAL EXPERIENCE

### Basis TI

#### Data Scientist

📅 June 2024 – Present    📍 Lavras, MG (Remote)

- Working with the **Office of the Comptroller General (CGU)**: developing an AI platform using GenAI (LLMs) and knowledge bases.

### Idwall

#### Data Scientist

📅 April 2023 – May 2024    📍 Lavras, MG (Remote)

- Developed statistical and machine learning models.
- Built end-to-end data pipelines.
- Conducted data analysis and hypothesis validation.
- Led a project that achieved annual cost savings in the six-figure range.

### Beegol

#### Data Scientist

📅 March 2022 – March 2023    📍 Lavras, MG (Remote)

- Developed automated reporting systems with Python/Postgres ETL pipelines
- Created ML-powered analytical solutions for operational optimization
- Implemented AWS-based data infrastructure (EC2/S3) for scalable processing

### Clicksign

#### Data Scientist

📅 April 2021 – February 2022    📍 Lavras, MG (Remote)

- Designed end-to-end data solutions: ETL pipelines, AWS cloud integrations, and automated reporting systems
- Developed Django-based internal tools and dashboards to operationalize data insights
- Implemented statistical models and ML solutions for business optimization
- Conducted hypothesis validation and data analysis to drive decision-making

## EDUCATION

### Master's in Intelligent Systems Engineering

#### Federal University of Lavras

📅 April 2021 – Dec 2023    📍 Lavras, MG

- Final project: Pre-training and fine-tuning language models (BERT, LLaMA, and others) using LoRA/QLoRA techniques.
- Information Retrieval.
- Evolutionary Computing for Optimization.
- Pattern Recognition.
- Fuzzy Systems.
- Neural Networks.

## HIGHLIGHT

**About Me:** I have the ability to learn very quickly, regardless of the tool. For me, concepts and problem-solving are the most important aspects, which I focus on.

## HARD SKILLS

### Generative AI & NLP

Large Language Models (LLMs)

Fine-tuning

LoRA/QLoRA Optimization

RAG Architecture

AI Agents

Text Embeddings

Transformer Models

HuggingFace

### Machine Learning & Engineering

Python (Pandas, NumPy, Scikit-learn)

PyTorch & TensorFlow

MLOps

Data Pipelines

ETL/ELT

Spark/Databricks

DBT

Airflow

### Cloud & DevOps

AWS

Azure

Docker

FastAPI

PostgreSQL

Redshift

### Analytics

SQL

Data Visualization

Hypothesis Testing

AB Testing

Statistical Modeling

## LANGUAGES

English    C1  
French    A1/A2

## PUBLICATIONS

2024 - Approaches based on language models for aspect extraction for sentiment analysis in the Portuguese language.

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## Bachelor's in Mechanical Engineering

Federal University of Mato Grosso

📅 March 2012 – May 2017

📍 Rondonópolis, MT

- During my undergraduate studies, I participated in the Aerodesign UFMT Regular team for four years, which aimed to design and build an unmanned cargo aircraft for the international SAE Aerodesign Brazil competition.
- I volunteered as a teaching assistant for one year in the "Thermal Machines" course.