

# LUIZ FERNANDO COSTA DOS SANTOS

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github.com/luiz826

luiz826.github.io

Languages Portuguese, English

## Experience

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### Nubank

*Machine Learning Engineer - Credit team*

**Sep 2022 – Present**

*São Paulo, Brazil (Hybrid)*

- Led Python model orchestration (batch/real-time) library, ensuring seamless integration and reducing model deployment time from 5 months in avg to 2 months.
- Developed and deployed a flexible binning framework for model score management across multiple versions, reducing binning change cycles from approximately 3 months to a few weeks.
- Led the design and migration of monitoring dataset services to a new Spark Scala framework, creating robust abstractions for each monitoring type, reducing contribution times from +5 hours to less than one hour.
- Migrated ETL to Data Mesh, cutting infrastructure costs by 25% and improving governance. The team had almost 5K datasets migrated.

### Huawei & Embrapii

*Machine Learning Engineer*

**Feb 2022 – Sep 2022**

*João Pessoa, Brazil*

- Embrapii is a company that allow Brazilian Universities easlisy work together with large companies, in this case, Huawei.
- Built a feature serving system, with Airflow, gathering data from IoT and sensor devices, transforming and storing data in a Influx DB, with a latency of less than 500 ms.
- Developed a solar characterization dataset for optimal solar tracker angles with more than 50K rows from several interested regions.
- Trained a Random Forest model, with Scikit Learn, improving energy generation by up to 12%.

### MGI Tech

*Data Scientist*

**Aug 2021 – Aug 2022**

*Mogi das Cruzes, Brazil (Remote)*

- The project foresees the development of analytic intelligence in operations that involve data collection through mobile devices in the MGI Tech company.
- Built robust ETL pipelines from transactional SQL databases to business dashboards, significantly improving the company's analytical capabilities, increasing the number of dashboards from 2 to 8.

## Education

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### B.S. in Data Science and Artificial Intelligence - Universidade Federal da Paraíba

*Aug 2020 – Jun 2025*

- GPA: 9.43/10.0 (2nd of the class)
- TF for Data Science Introduction, with a +30 students class

## Technical Skills

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### Languages:

- Scala, Python, SQL, Clojure, R, Java, C, C++

### Frameworks:

- Spark, Databricks, AWS (S3, EMR, Glue, EC2), Datomic, PostgreSQL, InfluxDB, Kubernetes, Kubeflow, Docker, Airflow, Terraform, CI/CD, Tekton, Grafana, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, XGBoost

## Certifications

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### Machine Learning in Production – DeepLearning.AI

*2025*

- Course taught by Andrew Ng, from Stanford

### Neural Networks and Deep Learning – DeepLearning.AI

*2021*

- Course taught by Andrew Ng, from Stanford

### CS50 – Harvard

*2025*

- As the final project, developed a Computer Vision model to detect a rubber duck in a image using Yolo, and built a front-end usign HTML, CSS and Java Script. The model had 97% of AUC.

## Leadership

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### Momento

*Mentor & Tech Lead*

**Jul 2025 – Present**

*João Pessoa, Brazil*

- Project that joins Brazilian students with professionals
- Mentor a team with 8 people in the technology and communications fronts to help a community of +250 students.

### TriLha

*Advisor & Mentor*

**Jun 2024 – Present**

*João Pessoa, Brazil*

- Introduced +50 students to computer science through lectures and projects.
- Taught Machine Learning, Deep Learning and Mentor 10 people individually