

# SÉRGIO LUIZ DOS SANTOS

Data Analyst | Data Science applied to Critical Systems

Brazil (*Available for Remote Work*)

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🌐 Technical Portfolio: <https://portfoliosantossergio.vercel.app>

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## PROFESSIONAL SUMMARY

Data Analyst with experience since 2023, combining **over 20 years of background in critical systems and regulated corporate environments** with **applied Data Science for decision-making**.

Strong foundation in **data governance, reliability, traceability, and technical documentation**, with proven ability to translate complex business problems into **measurable analytical solutions**, generating direct impact on **risk reduction, cost control, and operational efficiency**.

Solid experience communicating between technical and business teams, supported by a structured reskilling path in Data Science, applying modern analytics and machine learning practices to real-world, high-responsibility scenarios.

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## TECHNICAL SKILLS

### Programming Languages

- Python
- SQL
- C# / .NET

### Data & Analytics

- Exploratory Data Analysis (EDA)
- Supervised Machine Learning
- Scikit-learn
- Power BI

- Neo4J (Graph Analytics)

## Cloud & Infrastructure

- Azure Databricks
- Docker
- Windows Server
- Linux Server

## Governance & Critical Environments

- Data traceability
  - Access control
  - Operational continuity
  - Technical documentation
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## FEATURED DATA SCIENCE PROJECT

### Construction Delay Risk Prediction

**CCbjj Engineering & Risk Intelligence**

*(Fictional project with simulated data for educational purposes)*

#### Business Problem

- Approximately **35% of construction projects delivered late**
- Recurring contractual penalties
- Financial impact and client dissatisfaction

#### Baseline

- Forecasts based solely on historical averages
- Average prediction error of **18 days**

#### Analytical Solution

- Predictive model developed using **Random Forest**
- Key variables:
  - Weather conditions
  - Soil type
  - Supplier profiles
  - Project schedules

## Technical Results

- **MAE reduced to 7 days**
- Approximate **61% improvement** over baseline

## Business Impact

- Estimated **40% reduction in contractual penalties**
- Potential annual savings of **≈ R\$ 420,000 (≈ USD 85,000)**

## Deliverables

- Operational predictive model
- Telegram alert bot
- Interactive simulator built with Streamlit
- Executive report for stakeholders

## Tech Stack

Python, SQL, Scikit-learn, Supabase, Render, Streamlit

## Key Learning

Translating technical metrics into **clear financial impact**, supporting executive-level decision-making.

✉ Full project details:  
<https://portfoliosantosergio.vercel.app>

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## PROFESSIONAL EXPERIENCE

### Banco Bradesco S.A.

**Clerk | Data Entry Operator | Programmer | Systems Analyst**  
**1985 – 2008**

Career progression from administrative roles to programming, systems analysis, and leadership of the microcomputer support department in a large-scale banking environment.

### Key Achievements

- Automated internal processes, eliminating approximately **2,920 hours/year** of manual work

- Implemented and supported systems for **500+ users**, ensuring **99.5% average availability**
  - Developed systems focused on **traceability, reliability, and regulatory compliance**
  - Led the IT support team, ensuring operational stability in a mission-critical environment
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## Independent Consultant — Critical Systems

**2008 – Present**

- IT consulting for critical corporate environments
- Support for infrastructure and legacy systems
- Focus on **stability, security, governance, and operational continuity**

### Relevant Activities

- Windows Server administration
  - Integration of legacy systems with modern solutions
  - Technical support for legal and administrative departments
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## Independent Consultant — Data Science

**2023 – Present**

- Development of analytical and predictive projects
  - Application of Data Science to real business problems
  - Creation of data products to support executive and operational decision-making
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## CAREER TRANSITION & CONTINUOUS LEARNING

Structured reskilling program in **Data Science since 2023**, leveraging experience in critical systems to build reliable, explainable, and business-oriented analytical solutions.

### Courses & Certifications

- Data Science with Python — 2025
- IBM AI Fundamentals — IBM (2024)
- Azure Databricks — Microsoft (2025)
- Microsoft Azure Bootcamp — DIO (2024)

- Power BI & Advanced Excel — DIO (2024)
  - Neo4J & Graph Analytics — 2025
  - DIO Campus Expert — Cohort 14 (2025)
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## TECHNICAL PRODUCTION & RECOGNITION

- **Winner — DIO 35th Technical Article Competition**
- **Best Article — September 2025**

**Article:** *Low-Code in Healthcare: How to Build Medical Apps in Weeks*

Publications available on:

- **LinkedIn:** <https://www.linkedin.com/pulse/low-code-na-sa%C3%BAde-como-criar-apps-m%C3%A9dicos-em-semanas-luiz-dos-santos-xen7e>
  - **Medium:** <https://medium.com/@sergiosantosluz/low-code-in-healthcare-how-to-build-medical-apps-in-weeks-2679bf08ba77>
  - **DIO Platform:** <https://web.dio.me/articles/low-code-na-saude-como-criar-apps-medicos-em-semanas-d77f6760fa5a>
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## CAREER OBJECTIVE

To work as a **Data Analyst / Data Scientist**, solving problems related to:

- Data governance
- Operational efficiency
- Decision support

Applying experience in regulated and mission-critical environments to deliver **measurable impact on cost, risk, and operational performance**.

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## CURRENT STACK (SUMMARY)

Python | SQL | Azure Databricks | Power BI | Neo4J | Docker | Machine Learning