SÉRGIO LUIZ DOS SANTOS

Data Science Analyst | Critical Systems Specialist

Brazil

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🌐 Technical Portfolio: https://portfoliosergiosantos.vercel.app/

PROFESSIONAL SUMMARY

- Data Science Analyst with professional practice since **2023**
- Over **20 years of experience** in critical systems and regulated corporate environments
- Strong background in governance, reliability, and technical documentation
- Proven ability to translate complex problems into measurable business solutions
- Clear communication between technical and business stakeholders
- **Structured reskilling in Data Science since 2023, applying critical systems rigor to modern analytical solutions**

I seek to apply this experience to deliver solutions that reduce risk and increase operational efficiency.

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

- Microsoft Azure
- Docker
- Windows Server
- Linux Server

Governance & Critical Environments

- Data traceability
- Access control
- Operational continuity
- Technical documentation

FEATURED PROJECT — DATA SCIENCE

Construction Delay Risk Prediction

CCbjj Engineering & Risk Intelligence
(Fictional project — educational purpose only)

Business Problem

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

Baseline

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

Solution

- Predictive model built with **Random Forest**
- Key variables included:
    - Weather conditions
    - Soil type
    - Suppliers
    - Project schedule

Technical Results

- MAE reduced to **7 days**
- Approximately **61% improvement**

Business Impact

- Estimated **40% reduction in contractual penalties**
- Potential annual savings of **≈ BRL 420,000**

Deliverables

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

Technology Stack

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

Key Learning

- The importance of translating technical metrics into clear financial impact to support executive decision-making.

Detailed project available at:
https://portfoliosergiosantos.vercel.app/

PROFESSIONAL EXPERIENCE

Banco Bradesco S.A.

Administrative Clerk, Data Entry Operator, Programmer, Systems Analyst
1985 – 2008

Career started in administrative roles, progressing into software development and systems analysis, including leadership of the microcomputing support department.

Key Contributions

- Process automation eliminating approximately **2,920 hours/year** of manual work
- Implementation and support of systems for **500+ users**, ensuring average availability of **99.5%**
- Development of systems focused on traceability and regulatory compliance
- Leadership of the microcomputing support team, ensuring operational stability

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Independent Consultant — Critical Systems

2008 – Present

- Information technology consulting
- Support for critical corporate environments
- Strong focus on stability, security, and governance

Relevant Activities

- Windows Server administration
- Integration of legacy systems with modern solutions
- Technical support for legal and administrative departments

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 decision-making

PROFESSIONAL TRANSITION & CONTINUOUS LEARNING

- Structured reskilling in Data Science initiated in **2023**

Courses & Certifications

- Data Science with Python — 2025
- IBM AI Fundamentals — IBM (2024)
- Azure Databricks — Microsoft (2025)
- Microsoft Azure Bootcamp — DIO (2024)
- Advanced Power BI and Excel — DIO (2024)
- Neo4J and Graph Analytics — 2025
- DIO Campus Expert — Cohort 14 (2025)

TECHNICAL PRODUCTION & RECOGNITION

- **DIO Award** — Winner of the **35th Article Competition**
- **Best Article — September 2025**

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

Publication links:

- **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/@sergiosantosluiz/low-code-in-healthcare-how-to-build-medical-apps-in-weeks-2679bf08ba77

- **DIO**: 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:

- Governance
- Operational efficiency
- Decision support

Applying experience in regulated environments to generate **measurable business impact in cost, risk, and efficiency**.

CURRENT STACK (SUMMARY)

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

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