

Matheus Sartor, M.Sc.

João Pessoa, Paraíba, Brazil

matheus.sartor@poli.ufrj.br | +55 (21) 96766-9991 | www.linkedin.com/in/matheus-sartor

Summary

Senior Data Science and Machine Learning professional with over 3 years of hands-on experience in AI projects, LLMs, and AI Agents. Specialist in developing, integrating, and leading AI-first solutions with a focus on direct impact on customer experience and workflow automation. Strong background in multidisciplinary environments, collaborating with technical and non-technical teams to deliver innovative, business-oriented solutions. Highly curious, resilient, and results-driven, with a hands-on profile and a holistic view of complex problems.

Professional Experience

Senior Data Scientist | Frete.com | São Paulo, Brazil

October 2024 – Present

- Leads experiments and development of advanced recommendation systems using LLMs and cutting-edge technologies, processing large volumes of real-time data to optimize user experience.
- Implements automated workflows for pre-processing, training, deployment, and re-training of AI models, enhancing operational efficiency and the accuracy of credit recommendations.
- **Technologies:** AWS, Snowflake, GitLab, PySpark, Apache Kafka, Neural Networks, TensorFlow, PyTorch, Scikit-Learn, AWS SageMaker, AWS Lambda, AWS BedRock, JupyterLab.

Mid Level Data Scientist | Radix Brasil | Anywhere Office

October 2023 – October 2024

- Led data science projects for optimizing power generation in hydroelectric plants, applying advanced data analysis and AI.
- Developed an automatic audio-to-text transcription system with AI, increasing data accessibility and efficiency.
- **Technologies:** Bayesian Networks, Classification Models, Genetic Algorithms, Differential Evolution, PCA, DNN, RNN, Autoencoders, Generative AI, NumPy, Pandas, Feature Extraction, Azure (Cosmos DB, Blob Storage), PostgreSQL, Microsoft SQL Server, MongoDB, Elasticsearch, Pytest, Selenium, Web Scraping, GPT, Whisper, Langchain, LangFuse.

Entry Level Software Developer / Data Scientist | Radix Brasil | Rio de Janeiro, Brazil

November 2021 – October 2023

- Developed data science systems for asset performance management in hydroelectric plants, optimizing processes and reliability.
- Led the development of systems for transmission asset management, ensuring safe and effective operations.
- **Technologies:** Apache Airflow, Grafana, Docker, TensorFlow, Keras, Jupyter, Machine Learning, Statistical Learning.

Software Development Intern | Radix Brasil | Rio de Janeiro, Brazil

September 2020 – November 2021

- Developed real-time support systems and monitoring solutions for transmission assets.
- **Technologies:** .NET Core, C#, AngularJS, Angular Material, TypeScript, Oracle, SQL Developer, IIS, Active Directory, Azure DevOps, Python.

Education

MBA, AI Project Management (in progress)

USP – University of São Paulo | Mar 2025 – Mar 2027

Master of Science in Computer Science

Federal University of Paraíba | Mar 2022 – Mar 2024

Bachelor of Science in Mechanical Engineering

UFRJ – Federal University of Rio de Janeiro | Aug 2015 – Feb 2022

Skills

- **Machine Learning & AI:** LLMs, AI Agents, Deep Neural Networks (DNN), Recurrent Neural Networks (RNN), Autoencoders, Generative AI, Recommendation Systems, MLOps, Physics-Informed Neural Networks
- **Data Science & Analysis:** Bayesian Networks, Classification Models, Genetic Algorithms, PCA, NumPy, Pandas, Feature Extraction, Statistical Learning, Differential Equations
- **Cloud & Big Data:** AWS (SageMaker, Lambda, BedRock), Azure (Cosmos DB, Blob Storage), Snowflake, PySpark, Apache Kafka, Apache Airflow
- **Development & Tools:** Python, GitLab, JupyterLab, Docker, TensorFlow, Keras, .NET Core, C#, AngularJS, TypeScript, Selenium, Pytest
- **Databases:** PostgreSQL, Microsoft SQL Server, MongoDB, Elasticsearch, Oracle
- **Soft Skills:** Curiosity, creativity, empathy, resilience, ownership, clear communication, multidisciplinary collaboration, focus on impact and customer experience
- **Languages:** English (C2 Proficient), Portuguese (Native), French (Intermediate), Spanish (Intermediate), Mandarin (Basic)

Certifications & Awards

- Certified Azure DevOps Expert and Data Engineer (DP-203 & Az-400)
- EFSET English Certificate 73/100 (C2 Proficient)
- Hacking.Rio 2020 Winner
- Taming Big Data with Apache Spark and Python – Hands On!
- Structuring Machine Learning Projects
- Python for NLP

Publications

- Assets Performance Management systems for hydroelectric power plants – Electric Power Systems Research, v.228, Mar 2024
- Analysis of the application of physics-informed neural networks for differential equations solution in fluid mechanics (UFRJ)
- A comparison between data-driven techniques for statoric failure detection in hydropower plants (XIX ERIAC – 2023)
- Engasgo (Book Chapter)
- Realidade (Book Chapter)

References

Available upon request.