

Marco Nemetz Bochernitsan

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Personal Statement

Senior Data & AI professional and tech leader with deep expertise in Generative AI, Forecasting, NLP, and revenue optimization. Proven track record of driving innovation across AdTech, retail, and tech consultancy. Holds a Master's in Computer Science with a specialized research focus on fairness in diffusion models for image generation.

Skills and Technologies

I am proficient in a wide range of technologies, including Python, PySpark, SQL, VBA, C++, Pandas, mlflow, Power BI, Databricks, Streamlit, Plotly, Matplotlib, Airflow, Dagster, Impala, NoSQL, MongoDB, postgresql, Clickhouse, Forecasting, Clustering, Generative AI, Agents, LLMs, RAG, Guardrails, Vector databases, Git, Docker, CI/CD, Data storytelling, KPI development, stakeholder communication.

Languages: Portuguese (Native), English (Fluent).

Work Experience

ML Engineer Specialist - GenAI, HP, Remote – POA, RS, BR [2024-07 - Present]

- Tech Lead for HP Generative Learn, architecting and delivering a scalable GenAI solution using FastAPI, LLMs, RAG, guardrails and multimodal AI.
- Lead end-to-end engineering across architecture, performance, load testing, observability, authentication and production readiness.
- Led and contributed across multiple AI initiatives, including guardrails, document processing, multimodal workflows and image generation.
- Contributed to 9 patent submissions and received 2x HP Innovator Awards.

Sr. Data Scientist, Assertive Yield B.V, Remote – HAG ZH NL [2023-05 - 2024-07]

- Operate the company's AdTech machine learning models, including traffic shaping, flooring (RTB), viewability and revenue forecasting.
- Developed data visualizations for industry insight reports presented to external audiences, including potential clients.
- Built interactive quarterly report dashboards using Streamlit.

Data Scientist, Lojas Renner S.A. POA, RS, BR [2022-04 – 2023-05]

- Addressed a negative profitability issue by implementing a post-processing step for forecasting models (Prophet), leading to a weekly increase of R\$ 3.5M in product revenue. Forecasting more than 200,000 time series.
- Collaborated with cross-functional teams to develop product and machine learning metrics, including demand forecasting accuracy and profitability, to optimize our model's performance, resulting in more accurate sales demand forecasts.
- Collaborated with the design and development of a Power BI dashboard to provide easy access for our data to our stakeholders.

Data Analyst, Lojas Renner S.A. POA, RS, BR [2021-04 – 2022-04]

- Performed data ingestion using Airflow, creating Python-based DAGs. From Impala to NoSQL.
- Created and improved SQL Queries and KPIs, helping to measure the impact of revenue from ML products.
- Collaborated with multiple stakeholders by delivering product presentations and collecting valuable feedback.

IT Risk and Analytics Consultant, KPMG, POA, RS, BR [2019-08 – 2021-04]

- Led the Brazilian BOTs development team in building automated tests for audit, reducing testing time in approximately 85%.
- Collaborated with teams from England, Uruguay and India during the creation of the BOTs platform.
- As a consultant, conducted IT Risk audits for various companies, including SOX and other companies like Nubank, Banrisul and BRF (Dubai).

Software Engineer freelance, BT, POA, RS, BR [2019-02 – 2019-08]

- Using Python, Raspberry and QT, built a user-friendly interface for high frequency radio stations.

Software Engineer trainee, AIRSCORT, Jerusalem, Israel [2018-12 – 2019-02]

- Developed key features for the autonomous drone landing and charging station, including door control, charging status and temperature control using Python and C++.
- Collaborated with senior engineers from another company called Highlander, to be able to land their drones in our station.

Internships

- TDK Epcos do Brasil [2017-04 – 2018-08] – Reliability lab test management, VBA spreadsheets, and technical translation.
- Labelo [2015-08 – 2017-04] – Electrical equipment testing and data tracking spreadsheets.

Undergraduate Research Scholars

- CPTW [2015-02 – 2015-07] – CPFSK modulation study using Matlab and C++, focused on strategic communications.
- NLP Group [2012-11 – 2015-02] – Built a Twitter irony detector and a text classification tool for ontologies, using Python, SQL and Git.

Education

- Bachelor of Science in Electrical Engineering. PUCRS, Porto Alegre, Brazil [03/2012 – 08/2018]
- Master of Science in Computer Science with focus in Gen AI. PUCRS, Porto Alegre, Brazil [03/2024 – 03/2026]

Research Group: Malta – Machine Learning Theory and Applications.