NICHOLAS BIROCHI

COMPUTER ENGINEERING STUDENT

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EDUCATION

- **Computer Engineering – Engenheiro Salvador Arena College (8th semester – Evening program – Expected graduation Dec/2027)**
- **High School – Colégio Ábaco** (Completed dez/2022)

PROGRAMMING LANGUAGES & TOOLS

Python, R, SQL, C#, Java, PowerBI, SAP, Excel (VBA), PowerApps, Power Automate, n8n, Dash/Flask, Azure (AZ-900), Git

LANGUAGES

- **English (Upper-Intermediate – B2 First, Score 153)**
  - Cambridge English Entry Level Certificate 2023 (B2 First – Score 153)
  - Access International School - Advanced
- **Portuguese (Native)**
- **German: Beginner (A1)**

PROJECTS

In R, Data Analysis and Data Science:

- Project and lessons learned in R course
- Bank Transaction Fraud Classification (Decision Tree)
- SaaS Churn Analysis (TechGrow)
- EDA & Data Cleaning (Tech Store / DataClean)
- Final projects from the Power BI course

- Local AI Automation Assistant (n8n + Ollama)

In C# and JAVA:

- Audio Simulation Project with Doppler Effect
- Ballistic Launch and Linear Systems Project
- Cryptography Project (Matrix)

COURSES & ACHIEVEMENTS

Comprehensive Training in Data Analysis and Data Science (ongoing – completed modules include Machine Learning: regression, classification, clustering, PCA/t-SNE, Random Forest, CatBoost, and LightGBM)
Clean Code with Python (13h, Sep/2025)
Modules in Python, R, statistics, and data modeling
R Programming Course (7.5h, Dec/2024)
Advanced Probability and Statistics (3h, Dec/2024)
Data Science for Beginners + Real Projects (4.5h, Aug/2024)
Data Analysis in Python and Machine Learning (5h, Aug/2024)

OBJECTIVE

Junior Data Analyst

PROFESSIONAL SUMMARY

Computer Engineering student with experience in data analysis, automation, and applied AI, plus project development in Python, R, SQL, Power BI, and Excel. Strong knowledge of statistics and programming, with ability to translate technical analyses into actionable insights.

PROFESSIONAL EXPERIENCE

1. Volkswagen – Data Analysis Intern (Special Audit)

(Apr/2025 – Present)

Built and maintain a production analytics dashboard (Python, Dash/Flask, SQL/SQLite) for workforce presence and engagement (GPTW) reporting, with an MVC architecture, caching layer, and automated PDF/JPG exports.

Built Python routines to automatically flag irregularities in timekeeping and access-control data, supporting Special Audit investigations.

Extracted and processed SAP data (procurement/materials modules) and built Power BI dashboards to support audit decision-making.

Built an internal, fully local AI tool (no external APIs) to help draft audit reports, automating part of the initial documentation work.

Collaboration with teams to solve data issues and implement practical solutions.

2. PratikaUD – Data Analysis Intern

(Jan/2023 – Dec/2024)

Automation and data analysis using advanced Excel functions such as VLOOKUP, INDEX, and pivot tables.

Power BI (Elective, 40h, College, 2024)
SAP: Beginner Training, Financial Accounting, and MM/PP/FI/CO modules
Microsoft Azure Fundamentals (AZ-900)
Git Complete – Basics to Advanced
Microsoft Power Apps – Essentials
Military Training Course – Monitoring at Tiro de Guerra 02-078 (Completed Nov/2024) – Leadership and team management training
Automation & AI: Power Automate (SharePoint), n8n (Automation and AI Agents), and Prompt Engineering
Information Security & Cybersecurity – Fundamentals
2026 VW SAM Region Internal Audit Workshop – Volkswagen do Brasil
Databricks (in progress)
Certificates link: Completed Courses – Certificates

Contributed to improved data process efficiency, resulting in a 45% increase in accuracy of internal reports.

COMMUNICATION

- Leadership in academic projects and courses, such as developing dashboards in Power BI.
- Experience as a monitor at Tiro de Guerra, promoting collaboration and team management.
- Ability to translate technical analyses into actionable insights for non-technical audiences.
- Built a local AI tool to support auditors, translating technical results clearly for non-technical audiences.