Francisco Valente

⚲ Porto, Portugal   ✉ famvpereira@protonmail.com   📞 (+351)964777823   🔗 franciscovalente.dev

Upon completing my academic career, I have acquired a solid foundation in programming, mathematical and statistical tools, with extensive experience in Python and a solid introduction to Machine Learning. I am a resilient and highly organized individual, with strong problem-solving abilities and an analytical mindset.

Education

University of Porto - MSc in Computational Statistics and Data Analysis   *Sept 2022 – Jul 2024*
University of Porto - BSc in Physics   *Sept 2017 – Jan 2022*

Experience

Data Analyst @Creative Toys Portugal   *Dec 2024 – Jul 2025*
Porto, Portugal

- Conducted quarterly profitability analyses of products and clientes - traditionally performed in Excel - into fully automated Python scripts, significantly improving efficiency, reliability and speed
- Developed dashboards in Power BI to monitor financial KPIs and analyze sales performance
- Assisted in budgeting and income statement preparation, providing financial insights to the finance department
- Collaborated with sales and logistics teams to forecast revenue and optimize order supply
- Automated reporting processes and analyzed large datasets by accessing databases with SQL and transforming data from multiple tables using Python, supporting data-driven decision-making
- **Technical Skills:** Python, Microsoft SQL Server, Microsoft Excel, PowerBI, CRM Salesforce, Cegid Primavera

Data Analyst Curricular Internship @FORCERA   *Oct 2023 – Apr 2024*
Lisbon, Portugal

- Developed a Python-based anomaly detection system for public contracts, using data processing and analysis techniques to identify suspicious contracts
- Built and optimized PostgreSQL queries to efficiently handle large datasets, ensuring accurate data retrieval and performance
- Following Open Contracting Partnership (OCP) guidelines and adapting them to comply with Portugal's Public Contracts Code, developed a framework to flag contracts based on 9 binary risk indicators, each representing a different contract anomaly
- Containerized Python scripts using Docker and deployed them to AWS Elastic Container Registry (ECR) for efficient and scalable deployment
- Automated the execution of the containerized program using AWS Lambda, ensuring scheduled runs without manual intervention
- The program automatically inserted flagged contracts into a PostgreSQL table, allowing easy tracking and analysis of contracts that triggered any of the 9 risk flags
- **Technical Skills:** Python, Linux, GitHub, Docker, PostgreSQL, Cron jobs, AWS Lambda Function, AWS ECR, PowerBI

Tools

Programming: Python, R   **Libraries:** Pandas, Numpy, Scipy, Matplotlib, Psycopg2, Streamlit, Plotly
OS: Linux, Windows   **SQL Databases:** PostgreSQL, Microsoft SQL Server   **Version Control:** GitHub
MS Tools: PowerBI, Microsoft Excel
Languages: Portuguese (Native), English (Fluent), German (A1)

Non Related Work Experience

Bookbinder @In-Libris *Jul 2024 - Present*
Porto, Portugal
- Performed traditional and modern bookbinding techniques.

Salesperson @JEF *Jul 2023 – Sept 2023*
Porto, Portugal
- Provided customer service and personalized product advice.
- Handled cash register operations and supported daily store activities.

Math Tutor @Centro de Explicações Ciências do Saber *Apr 2022 – Jun 2022*
Porto, Portugal
- Delivered one-on-one math tutoring to high school students.
- Strengthened communication and teaching-related skills.

Stocker @SONAE Continente *Jun 2020 – Sept 2020*
Monção, Portugal
- Restocked and organized products in store.

Waiter @Bar das Caldas *Jul 2016 – Sept 2016*
Monção, Portugal *Jul 2017 – Sept 2017*
- Provided customer service in a fast-paced environment.
- Developed teamwork, time management, and customer-facing skills