

Ana Pedro Caleiro

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Skills

- **Programming Languages:** Python, R, SQL
- **Machine learning:** Python (eg. Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn, Streamlit, Plotly)
- **Data Science & Miscellaneous Technologies:** Data Science Pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Hypothesis testing, Time Series Forecasting, Excel, Git, Power BI
- **Other Skills:** Financial/Investments Analysis & Modeling | **Portuguese, English**– All professional proficiency or above

Education

Master in Data Science and Advanced Analytics	NOVA IMS – Information Management School	<i>Lisbon, Portugal</i>	09/2024 – ON
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- **Relevant Course Work:** Machine Learning, Data Mining, Statistics, Deep Learning, Business Intelligence, Storing and Retrieving Data.
- Best Master program in Data Analytics in the Western Europe by *Eduniversal*.

Bachelor in Corporate Finance	ISCAL - Lisbon Accounting and Business School	<i>Lisbon, Portugal</i>	09/2021 - 07/2024
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- **Relevant Course Work:** Financial Modelling | Real investment analysis and evaluation | Corporate Assessment and Restructuring.

Projects

Recommendation Systems (2025)

- Implemented multiple recommendation methods, including **Collaborative Filtering**, **Apriori-based Association Rules**, and **custom logic for Smart Basket** and **Substitute Product suggestions** on **real data** provided by **Recheio**.

AI Powered-Chatbot (2025)

- **Fidelidade** gave us the opportunity to develop an AI-powered chatbot assistant to **support its sales agents** using **real** company data.
- Tools like **Azure OpenAI** and **Flowise**, leveraging Retrieval-Augmented Generation (RAG), were used, achieving accuracy scores ranging from **49%** to **82%**

Customer Segmentation Analysis (2024)

- Implemented **unsupervised machine learning techniques** for practical clustering applications, including K-means and Self-Organizing Maps; profiled over 30 000 records in a large dataset using Python to derive actionable insights.
- Executed **end-to-end data science pipeline**, from preprocessing to clustering and evaluation.

Predictive Analytics for Injury Claim Classification (2024)

- Built a **multiclass classification** model to predict claim injury types (7 classes) using **supervised learning** on 593K+ records (New York WCB dataset).
- Evaluated **multiple machine algorithms** and implemented Stratified Cross-Validation and Grid Search between other techniques, wich originated in a **F1 macro score of 47%** and a **precision of 55%**.
- Created an **interactive analytics interface** for real-time claim classification predictions using Streamlit.

Business Finance & Investment Strategy (2023)

- Developed a comprehensive business strategy for Toyota Portugal through financial planning, investment and risk analysis, and market evaluation, using real consolidated financial data and Monte Carlo simulation to generate reports and forecasts.

Experience

Junior Audit	Antunes Rodrigues e Célia Custódio SROC	<i>Lisbon, Portugal</i>	02/2023 - 07/2023
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- Managed and analyzed **high-volume financial datasets** from government companies, ensuring data accuracy and consistency.
- Resolved financial discrepancies through client collaboration, investigation, and corrective actions, improving data integrity.

Others

- **EY NextGen Women 2023:** Selected as one of **8 finalists** for the EY Strategy and Transactions NextGen Women program (**09/2023**)
- **Erasmus +:** Participated in two separate **Erasmus programs**, each lasting **9 days** in Bulgaria and Croatia (**02/2021 & 08/2022**)
- **Volunteered at Refood**, assisting with food preparation, delivery, and space cleaning. (**10/2020 & 12/2021**)
- **Commercial Manager** at ISCAL Junior Business Solution (**10/2021 & 10/2022**)