



# João Ramalho

## Senior Data Scientist

### Contact

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Portuguese, Swiss  
07.05.1973

### Professional Objectives

My current focus is Data Science and Artificial Intelligence. I contribute to the development of more sustainable products by providing internal consulting, delivering training courses and implementing powerful data analytics tools.

My experience in the manufacturing industry spans 25 years. Having held various positions in R&D, Operations and IT I have gathered a broad understanding of how consumer goods are conceived, industrialized and manufactured.

## Professional Experience

### Data Science



#### **2021 - present, Senior Data Scientist, Nestlé, Switzerland**

Providing advanced analytics on Product Development, Measurement Systems validation and Manufacturing Process Improvement at the System Technology Center. Core member of the global DATAanalytics network, contributing the development and implementation of data science tools, methods and training for global R&D. Training courses delivered in 2023 have reached more than 100 attendees.

#### **2021 - present, Project Coach, UNIL, Switzerland**

Collaboration with Academia under the Nestlé Needs Youth program. Coaching and support to Master students in data science projects. Six projects delivered covering Natural Language Processing, Historical Data Analysis, Machine Learning and Predictive modeling, Statistical Process Control and Supply Chain Planning.

#### **2021 - present, Track Leader, Powercoders, Switzerland**

Leading the development and delivery of a 4 weeks Data Analytics training module for aspiring IT professionals with refugee status. Contents range from Business Analytics to Industrial Statistics based on R, Python and PowerBI. Main tasks consist of trainers hiring, syllabus definition, participants mentorship and final project follow-up.

### R&D Project Management

#### **2012 - 2020 - Packaging Group Leader, Nestlé, Switzerland**

Lead a team of 4 project managers for Nescafé Dolce Gusto at the NSTC. Engineering, prototyping, testing and industrialization of capsule components. Expertise in injected and thermoformed polypropylene and EVOH rigid parts and laminated and coated flexible films in PET and Aluminium.



## **2006 - 2012 - Senior Project Manager, Rolex, Switzerland**

Coordinating specialists in watch engineering, quality and production. Overall project management from brief through development to market launch. Expertise in machined micro-mechanical parts in steel and silicon. Strong knowledge on production processes of stamped, PVD and electroplated cases, bracelets and dials.

## **Operations Management**



## **2003 - 2006 - SAP PM Leader, Philip Morris, Switzerland**

Lead a team of 5 operations experts and 2 IBM SAP consultants. Advisor for the World Class Maintenance program. On site support in Holland, Germany, Argentina, Brazil, Russia and Lithuania.

## **1998 - 2003 - Production Supervisor, Philip Morris, Portugal**

Shift supervisor in 3x8h (factory operation with ~100 persons including production, maintenance and logistics). Daily troubleshooting on the shop floor in order to achieve the factory output of average 40 million parts, while ensuring quality and safety standards.

## **Education**



### **Data Science**

- 2023 - Connecting Artificial Intelligence to the Internet of Things - EPFL, Lausanne
- 2022, Data Analyst with Python, 66h (Cert.#301,712) - [DataCamp](#)
- 2021, Applied Data Science Communication and Visualization, COS 650h (Cert.#0058201) - [EPFL extension school](#)
- 2019 - Data Science with R, 89h (Cert.#124,072) - [DataCamp](#)

### **Industrial Engineering**

- 2017 - FMEA Failure modes analysis - Ariaq, Yverdon
- 2016 - DOE Design of Experiments - Nestlé, Orbe
- 2015 - SixSigma green belt project - DOQS, Neuchâtel
- 1998 - MSc. Mechanical Engineering, IST, Lisbon - [IST](#)

### **Management and Leadership**

- 2022 - Resilience Program - Resilience Institute, On-line
- 2018 - Emotional Intelligence for Leaders - Nestlé, Vevey
- 2011 - PMP - Project Management (Cred.#1471588) - [PMI](#)

## **Languages      Programming skills**

**Portuguese**  
native  
**French**  
near native  
**English**  
near native  
**German**  
Basic

### **Python - R - SQL - bash - git - Azure - Power BI**

I'm actively participating in multiple software projects with colleagues and partner companies. I'm a strong programmer with a wide and deep understanding of the of the Data Science Full Stack. I've contributed directly with code in multiple Data Science and Machine Learning projects, from the back-end Server and Database administration to the Web or Power BI components of the front-end. I have also practical experience with Agile methodologies including DevOps and continuous delivery.