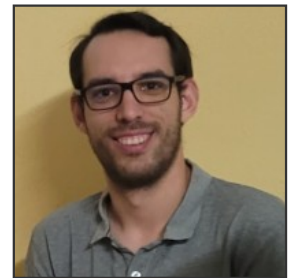


Joaquim Leitão

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| 📄 [Joaquim Leitão](#) | [Scopus Profile](#)



My main goal is to work on data science and machine learning applications to solve business problems.

Experience

NOS

TECH LEAD DATA SCIENTIST

Porto, Portugal

Jan 2024–Present

- Responsible for the technical part of an offer generation projet (propose new packages/additives/etc for individual customers)
- Monitor, plan and implement developments in the project from a technical side
- Advocate for good software development practices and code consistency across different developers

DATA SCIENTIST

Sept 2023–Jan 2024

- Ensuring periodic deliveries with updated predictions/inference from a trained model
- Exploratory data analysis and planning aiming to propose pilot project

Nokia

Amadora, Portugal

LEAD DATA SCIENTIST

March 2023–Sept 2023

- Lead Data Scientist for one key area in the team
- Predictive modelling, image processing and classification, task scheduling, natural language processing (NLP)
- Collaboration with researchers from Nokia Bell Labs, receiving solution handover and prototype industrialization

DATA SCIENTIST

Nov 2021–March 2023

- Predictive modelling, image processing and classification, task scheduling, natural language processing (NLP)
- Collaboration with researchers from Nokia Bell Labs, receiving solution handover and prototype industrialization

Fundação para a Ciência e Tecnologia

Coimbra, Portugal

SCIENTIFIC RESEARCH GRANT

Jun 2017–Jul 2021

- Uncertainty-aware resource allocation (stochastic programming, mixed-integer linear programming)
- Historical dataset collection (SQL, Python, data cleaning, inspection and normalisation)
- Probabilistic model development, tuning and evaluation (Gaussian processes, Quantile regression, Cross-Validation)
- Merit award: Engineer Lecturers Award, Ordem dos Engenheiros – Região Centro (2019)

Department of Informatics Engineering, University of Coimbra

Coimbra, Portugal

INVITED ASSISTANT PROFESSOR

Nov 2014–Mar 2015

Feb 2017–Aug 2019

- Data Analysis and Transformations (linear and non-linear systems, time-frequency analysis and time series analysis)
- Introduction to Programming using Java

Department of Civil Engineering, University of Coimbra

Coimbra, Portugal

SCIENTIFIC RESEARCH GRANT

Feb 2017–May 2017

- Automate data collection, processing and visualization (Django, PostgreSQL, JavaScript, Data Normalisation, PCA)
- Pattern discovery and evaluation (Hierarchical and K-means clustering, dynamic time warping)

Department of Informatics Engineering, University of Coimbra

Coimbra, Portugal

SCIENTIFIC RESEARCH GRANT

Sept 2015–Feb 2016

- Development and validation of rule-based control systems
- Best Paper Award: [4th Experiment@ International Conference \(2017\)](#)

SCIENTIFIC RESEARCH GRANT

Aug 2014–Aug 2015

- Offline and online time-series outlier detection and accommodation (MATLAB, Python)
- Remote laboratory for introduction to programming and control systems courses (Java, Apache Struts 2)
- [PyDAQmx-Interface](#), remote control of three-tank system (Python 2.7, National Instruments 6008, 6009 boards)

Education

University of Coimbra – Faculty of Sciences and Technology

PH.D. IN INFORMATION SCIENCE AND TECHNOLOGY

- Thesis: “Adaptive Supervisory Framework for Cyber-Physical Systems”
- **Final Classification: Summa Cum Laude (Highest Praise)**

Coimbra, Portugal

Sep 2016–Jun 2021

University of Coimbra – Faculty of Sciences and Technology

M.SC. IN INFORMATICS ENGINEERING

- **Final Classification: 17/20**
- Thesis: “Flood Management in Urban Drainage”
- Relevant Coursework:
 - Artificial Intelligence, Machine Learning, Pattern Recognition
 - Evolutionary Computation, Systems Modelling and Analysis, Experimental Methodologies

Coimbra, Portugal

Sep 2014–Jun 2016

University of Coimbra – Faculty of Sciences and Technology

B.SC. IN INFORMATICS ENGINEERING

- **Final Classification: 17/20**
- Merit award: Top 3% students (2012 and 2013)
- Relevant Coursework:
 - Algebra, Mathematical Analysis, Statistics
 - Programming, Databases, Distributed Systems

Coimbra, Portugal

Sep 2011–Jun 2014

Complementary Education

Coursera (Online Course)

NATURAL LANGUAGE PROCESSING WITH PROBABILISTIC MODELS

April 2023

Coursera (Online Course)

NATURAL LANGUAGE PROCESSING WITH CLASSIFICATION AND VECTOR SPACES

February 2023

Udemy (Online Course)

FEATURE SELECTION FOR MACHINE LEARNING

Jun 2020

Udemy (Online Course)

FEATURE ENGINEERING FOR MACHINE LEARNING

Mar 2020

Skills

MACHINE LEARNING

- Regression, Classification, Supervised Learning, Unsupervised Learning, Optimisation, Time series, Mathematical Analysis
- Feature Engineering, Feature Selection, Data Cleansing, Normalisation and Visualization, Hypothesis Testing, Cross-Validation
- SVMs, ANNs, Deep Learning, Gaussian Processes, Random Forests, Capsule Networks, Hierarchical and K-Means Clustering, PCA, LDA

PROGRAMMING

- Python (Numpy, Scipy, Pandas, Scikit-Learn, TensorFlow, Matplotlib, Seaborn, Statsmodels, Jupyter)
- R, Scala, MATLAB, SQL, Bash, C/C++
- Java, JavaScript, Git, S3, DVC, HTML, CSS

Languages

LANGUAGES

- Native Language: Portuguese
- Foreign Language: English
 - Certificate in Advanced English (C1)
 - First Certificate in English (B2)

Event Organisation

2020	Organisation member , EDUCON 2020 – IEEE Global Engineering Education Conference	<i>Porto, Portugal</i>
2019	Organisation member , 5 th Experiment@ International Conference	<i>Madeira, Portugal</i>
2018	Organisation member , 13 th APCA International Conference on Automation Control and Soft Computing	<i>Azores, Portugal</i>
2017	Organisation member , 4 th Experiment@ International Conference	<i>Madeira, Portugal</i>
2013	Organisation member , 2 nd Experiment@ International Conference	<i>Madeira, Portugal</i>

- 2020 **IEEE Access,**
- 2019 **American Journal of Water Science and Engineering,**
- 2017 **22nd IberoAmerican Congress on Pattern Recognition,**
- 2017 **18th International Conference on Engineering Applications of Neural Networks,**