aquım **Lei**t

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I Scopus Profile



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

Experience _____

Nokia Amadora, Portuaal

DATA SCIENTIST

- Lead Data Scientist for one key area in the team (March 2023-Present)
- · 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

SCIENTIFIC RESEARCH GRANT

- · 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

INVITED ASSISTANT PROFESSOR

- 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

SCIENTIFIC RESEARCH GRANT

- 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

SCIENTIFIC RESEARCH GRANT

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

Department of Informatics Engineering, University of Coimbra

SCIENTIFIC RESEARCH GRANT

- 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)

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

Nov 2021-Present

Jun 2017-Jul 2021

Coimbra, Portugal

Nov 2014-Mar 2015

Feb 2017-Aug 2019

Coimbra, Portugal

Feb 2017-May 2017

Coimbra, Portugal

Sept 2015-Feb 2016

Coimbra, Portugal

Aug 2014-Aug 2015

Coimbra, Portugal

Sep 2016-Jun 2021

Coimbra, Portugal

Sep 2014–Jun 2016

University of Coimbra - Faculty of Sciences and Technology

Coimbra, Portugal

April 2023

B.Sc. in Informatics Engineering Sep 2011–Jun 2014

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

Complementary Education

Coursera (Online Course)

NATURAL LANGUAGE PROCESSING WITH PROBABILISTIC MODELS

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	Porto, Portugal
2019	Organisation member, 5 th Experiment@ International Conference	Madeira, Portugal
2018	Organisation member , 13 th APCA International Conference on Automation Control and Soft Computing	Azores, Portugal
2017	Organisation member, 4 th Experiment@ International Conference	Madeira, Portugal
2013	Organisation member, 2 nd Experiment@ International Conference	Madeira, Portugal

Scientific Reviewer

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**,