

FRANCISCO ALMEIDA

DATA SCIENCE
BIOINFORMATICS



BIO

I'm a scientist with a strong interest in the convergence of science, technology, and data. Excited about unraveling molecular mysteries and leveraging programming skills for transformative applications using data science and machine learning. Presently, I took some time from business to focus on learning about specific topics. I'm motivated to take on new challenges and make meaningful contributions.

WORK EXPERIENCE

Data Scientist

@ Kantar Worldpanel - CoE, Lisbon - May 2023 - October 2024 (1 yr 7 mos)

- Redesigned legacy products originally developed in SAS and transitioning to R, achieving runtime reduction and improved computational efficiency. Implementation of R best practices for development and package creation.
- Developed and managed the ETL data pipeline for the Central and South American regions to power the global advanced analytics data products.
- Delivered and maintained advanced analytics reports to some of the largest global clients. Consumer panel clustering, segmentation, classification and other solutions across time-series.

Data Analyst

@ Kantar Worldpanel - CoE, Lisbon - April 2022 - May 2023 (1 yr 2 mos)

- Performed predictive statistical analysis and modeling on consumer panel data to uncover insights that drive brand growth.
- Delivered customer, brand, advertising, media and communication analytics, extracting key performance indicators (KPIs) to enhance brand strategies and foster innovation.
- Worked closely with stakeholders from all over the world to ensure the insights and KPIs obtained suited their needs.

Bioinformatician - Trainee

@i3S - Instituto de Investigação e Inovação em Saúde, Porto - Hybrid / 2020 - 2022 (1y 4 mos)

- Next Generation Sequencing data processing and analysis pipeline development. Variant Calling from Whole Exome Sequencing and Whole Genome Sequencing data with clinical applications using multiple variant callers.
- Developed pipelines for bioinformatics analysis on high performance computing environment with unix system.

EDUCATION

MS, Bioinformatics & Computational Biology

2019 - 2021

University of Porto

Master Thesis: "Analysis and comparison tool for multiple variant calling results from germline NGS data with clinical applications"

i3S, Porto, Portugal - Expression Regulation in Cancer group.

BS, Genetics and Biotechnology

2016 - 2019

University of Trás-os-Montes e Alto Douro

MY STACK

TECH

</> python, R, SQL, SAS, matlab

Shiny, plotly

Git, Docker, Bash

Azure, Databricks

LANGUAGES

Portuguese

English

Spanish

DATA & MACHINE LEARNING

TensorFlow

arrow

purrr

tidymodels

PyTorch

Scikit-learn

caret

ggplot2

statsmodel

dplyr

data.table

pandas

NumPy

PUBLICATIONS & COURSEWORK

- Co-author in publications in international journals [1,2].
- Multiple panel and oral communications in national and international conferences in the fields of Genetics and Bioinformatics - [Here](#)

REFERENCES

1. <https://doi:10.1016/j.jgar.2019.05.017>

2. <https://doi.org/10.1007/s10096-019-03709-6>

Licenses & Certifications

Coursera

- Python Essentials for MLOps (Credential ID: [3L7CJZVICLOU](#))
- Exploratory Data Analysis for Machine Learning (Credential ID: [WZNM54SUKPEC](#))
- Machine Learning with Python (Credential ID: [XSCWRJX8FU3W](#))

Academic

(Valued with 6 ECTS)

Applied Statistics \ Introduction to Data Science \ Programming and Databases \ Image Processing and Analysis \ Advanced Topics in Data Science \ Computer Vision \ Data Visualization \ Data Mining \ Algorithms for Bioinformatics \ Bioinformatics for Omics \ Data Structures for Bioinformatics \ Next Generation Sequencing \ Computational Biochemistry