ALEXANDRE HENRIQUE S. DIAS

I'm a Data Scientist passionate about statistics applied to Machine Learning algorithms and how to turn those algorithms into tools to make people live better and happier. Also, I love writing about data science stuff. Currently, I do my job as a Data Scientist focusing on solving problems in the domain of Human Resources.

INDUSTRY EXPERIENCE

Present | 2021

Data Scientist
B2W Digital

📍 São Paulo, SP

· Statistical modelling and analysis of HR People Analytics-related problems.

2021 | 2019

Data Scientist
Looqbox

📍 São Paulo, SP

· Development of BI reports and dashboards using R, Python, and SQL.
· Maintainer of the Looqbox R Package used to build R objects and data structures compatible with the Looqbox Application.

EDUCATION

Present | 2021

M. Sc., Electrical and Computer Engineering
UFRN - Federal University of Rio Grande do Norte

📍 Natal, RN

· Majoring in Data Processing and Analytics

Present | 2020

MITx Micromaster Program in Statistics and Data Science
MITx

📍 EdX

· The MITx MicroMaster in SDSS covers the fundamentals of data science, statistics, and machine learning.

2019 | 2018

B. Sc., Computer Engineering
UFRN - Federal University of Rio Grande do Norte

📍 Natal, RN

· Member of the Modeling and Scientific Data Analysis team.

2017 | 2015

B. Sc., Sciences & Technology
UFRN - Federal University of Rio Grande do Norte

📍 Natal, RN

· Linear Algebra and Analytical Geometry assistant teacher.
· Calculus II assistant teacher.

Download a PDF of this CV

CONTACT

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in *linkedin.me*

 github.com/alexandrehsd

M *medium.com/@alexandre.hsd*

 alehsdias

LANGUAGES AND FRAMEWORKS

 Tensorflow 2.0

 Python 3 (pandas, numpy, matplotlib, seaborn, statsmodels, Scikit-Learn)

 git (and GitHub)

R R (tidyverse, base R, package development)

 Relational Databases

🖥 RESEARCH EXPERIENCE

2019
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2018

Undergraduate Researcher
Digital Metropolis Institute 📍 UFRN

· Developed a traffic monitoring system using image recognition.

2017
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2016

Undergraduate Researcher
Department of Informatics and Applied Mathematics 📍 UFRN

· Developed an interactive theorem prover based on Linear Logical using the Maude programming language.

📈 SELECTED DATA SCIENCE WRITING

2020

A mathematical derivation of the Law of Total Variance
📍 *The Startup*

· Understanding what is and when to apply the Law of Total Variance.

2019

Clustering with K-means: simple yet powerful
📍 *Medium*

· Explain what is Cluster Analysis, and how the K-means algorithm work providing its pros and cons.

I enjoy spending time reading about productivity, lifestyle, data science/AI, and statistics

2019

An introduction to Linear Regression
📍 *Medium*

· Explain all assumptions behind Linear Regression, how to measure its performance, and how to implement it in Python.

📖 ACADEMIC PUBLICATIONS

2019

Performance Evaluation of an Edge OBD-II Device for Industry 4.0
Institute of Electrical and Electronics Engineers 📍 IEEE

· Performance evaluation of an Edge OBD-II device that collects data from vehicles in an autonomous way in order to provide customer feedback and tracking

Paper published in the 2019 II Workshop on Metrology for Industry 4.0 and IoT (MetroInd4.0&IoT). Naples, Italy.

CERTIFICATES & COURSES

2019
|
2018

DataCamp completed tracks

DataCamp

- Data Scientist with Python.
- Data Analyst with Python.
- Data Manipulation with Python.
- Machine Learning with Python.
- Importing & Cleaning Data with Python.
- Python Programming.
- Python Programmer.

TALKS

2019

Understand what is Data Science and how this field is going to color the 21st Century (translated)

UFRN - Federal University of Rio Grande do Norte 📍Arduino Day 2019

- What is data science and what it takes to become a data scientist.

2018

Predicting Pulsar Stars: How Data Science helps us understand the universe (translated)

UFRN - Federal University of Rio Grande do Norte

📍II seminar on DS Applications

- The importance of detecting Pulsar Stars, and how we can implement a simple neural network to beat XGBoost.