# ALEXANDRE HENRIQUE S. DIAS

I'm a Computer Engineer and Data Scientist. I enjoy spending my free time studying statistics, programming and reading Data Science-related articles. At work, I play my role mostly in building visualizations to clients and contributing to the company's R package.

## SELECTED POSITIONS

**Present | 2019**

### Data Scientist
Looqbox

📍 São Paulo, SP

- Work primarily done in R, Python, and SQL to develop graphics visualizations.
- I'm a contributor of the Looqbox R Package used to build R objects and data structures for the Looqbox Application.

## EDUCATION

**Present | 2020**

### MITx Micromaster Program in Statistics and Data Science
MITx on edX

- The program covers the fundamentals of data science, statistics, and machine learning.

**2019 | 2018**

### B.S., Computer Engineering
Federal University of Rio Grande Do Norte - UFRN

📍 Natal, RN

- Member of the Modeling and Scientific Data Analysis team.

**2017 | 2015**

### B.S., Sciences & Technology
Federal University of Rio Grande Do Norte

📍 Natal, RN

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

## SELECTED WRITING

**2020**

### A mathematical derivation of the Law of Total Variance
The Startup, Medium

- O que é e como usar a lei da variância total.

**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.

**2019**

### An introduction to Linear Regression
Medium

- Explain all assumptions behind Linear Regression models, how to measure their performance, and how to implement a model in Python.

**2019**

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

- Authored with Ivanovitch Silva, Paolo Ferrari, Diego Silva, Marianne Silva, and Gabriel Signoretti.

## CONTACT

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## CODING SKILLS

Ⓡ R (tidyverse, base R, package development)

🐍 Python (pandas, numpy, matplotlib, seaborn, statsmodels, scikit-Learn)

🗄 SQL (MySQL, Oracle)

🐙 git (and GitHub)

Ⓒ C (Parallel Programming with OpenMP, pthreads and MPI)

Ⓒ C++