ALEXANDRE HENRIQUE S. DIAS

I'm a Data Scientist and a graduate student in Electrical and Computer Engineering at UFRN. My research is focused on social network analysis and graph theory. Additionally, I enjoy my free time writing posts on Medium about Machine Learning. I am skilled in Python, Machine Learning (Scikit-Learn, and TensorFlow), R, and SQL. I also have skills in MLOps using GKE, Kubeflow, Kubernetes, and Docker.

💼 INDUSTRY EXPERIENCE

Present | 2021

Data Scientist
Americanas S.A. 📍 São Paulo, SP

- Responsible for building ML models using: Python, Scikit-Learn, and Tensorflow.
- Create ML pipelines using KubeFlow Pipelines from Google Cloud AI Platform, assist in the design of the CI/CD operations of the ML models.

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

- Research in complex network analysis, social networks, and graph theory.
- Tools: python, networkX, gephi, and more.

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
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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.

🖥 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.

📘 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.