

Wesley Lioba Caldas

Data Scientist

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WORK EXPERIENCE

Research, Ryerson - february/2020 - present - Toronto, Ontario

One of the most important Universities in Toronto responsible for technological innovation based on real-world knowledge.

- Created the dashboard web application in PowerBi, SQL, Python, demonstrating useful information to get insights about COVID19 spread in Toronto.
- Developed & built deep learning/machine learning models and new feature extraction techniques to predict heart disease, using Python (Pytorch, Skit-learning), outperforming standard methods.
- Built, implemented, and maintained REST API for cough classification using Python (Flask, Skit-learning, Keras), Docker, and SQL, offering a containerized application with easy consumption.

Machine Learning Engineer, Polibras Software - April/2018 - february/2020 - Sobral, Ceará

Solutions for retailers, wholesalers, and distributors. Pioneers in sales force automation in Brazil.

- Implemented an image recognition application using python (Pandas, OpenCV, Tensorflow, Docker) to extract data from invoiced orders, reducing the human effort in 70% percent.
- Developed a recommendation system for clusterized clients based on autoencoders, using python (Tensorflow, Pandas, Skit-learn, NLTK, Hypothesis test), increasing sales by 10%.
- Created many dashboards for analytical reports, using Powerbi, python, javascript, SQL helping stakeholders get better decisions.
- Produced an optimization website tool for Vehicle Routing Problem(VRP) using Ortools, python(Pandas, Flask), javascript, jquery reducing by 30% the transport cost of a car fleet.

Research, CAPES - January/2015 - february/2020 - Sobral, Ceará

The main foundation for fostering innovation and technology in Brazil.

- Writing/Presenting scientific papers in machine learning conferences, demonstrating excellent skills in pitch, and talk in public.
- Created new techniques for signal processing and feature extraction using Python outperforming in 5% of the standard algorithms in heart morphology recognition.

- Oriented interns in their research to help them achieve their goals, having an approved project at Maker Faire Deutschland 2020.
- Developed new machine learning methods for semi-supervised learning using MATLAB improving the accuracy of existing models for human action recognition by 10%.

PREVIOUS EXPERIENCES

- **Freelancer, Archimedes Teaching Course** - *October/2016 - january/2018* - Fortaleza, Brazil
- **Intern, Group of Computer Networks, Software Engineering and Systems** - *february/2014 - march/2015* - Fortaleza, Brazil
- **Intern, PET computation** - *january/2012 - july/2014* - Fortaleza, Brazil

SIDE PROJECTS

[COVI19 Dashboard](#): Power BI dashboard showing a report about COVID 19 spread in Toronto.

EDUCATION AND CERTIFICATES

2014 **B.Sc. in Computer Science**, Federal University of Ceará

2017 **M.Sc. in Computer Science**, Federal University of Ceará

Currently **P.hd. in Computer Science**, Federal University of Ceará

TECHNICAL SKILLS

(6+ years): Matlab, Python(Tensorflow, Keras, Pytorch, Skit-learn, Flask, Pandas), and Git.

(4+ years): PostgreSQL, Java, C++, C, PowerBi, Tableau

(2+ years): JQuery, Javascript, CSS, HTML

(1+ years): Or tools, Docker, AWS Lambda, AWS EC2, Amazon Sagemaker

(Studying): Pyspark, Hadoop, Google Cloud Platform

LANGUAGES

English - Level of Proficiency (Advanced)

Portuguese - Native