

# HÉCTOR DORRIGHELLO GIACON | Curriculum Vitae

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## OBJECTIVES

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I'm looking for an opportunity as a Data Scientist where I can apply my knowledge in data analysis and artificial intelligence aiming to extract the maximum possible value from the business, with new insights for the company as a whole, as well as aggregating and collaborating with the team contributing a collaborative part to the company.

## SUMMARY OF QUALIFICATIONS

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Bachelor in Computer Science, graduated in June 2022, constant apprentice and enthusiastic about knowing and learning new technologies to acquire, reproduce and share knowledge, through initiative and teamwork. I moved to Maringá in 2016 to study at the State University of Maringá and since then I understood that technology and learning together can meet the needs of customers and companies efficiently.

After graduation, my focus has been on data science. I did a postgraduate degree and residency in data science at the Artificial Intelligence HUB of SENAI Londrina, in which I learned concepts such as data exploration, machine learning, deep learning, vision computational, analysis and data visualization through classes and real projects provided by participating companies. Among them Volvo, Bunge and Matte Leão.

I am currently at SENAI Londrina as a fellow at the Software Factory, in which I carry out projects provided by contracting companies, improving and acquiring new knowledge, mainly in the area of time series and with tools such as TensorFlow.

At the same time, I am studying two subjects in the master's program in IT at Federal Technological University of Paraná - Cornélio Procópio as an external student: Artificial Intelligence, in which I am improving my concepts already learned, with classes and a practical work delivered in article format, and Programming Languages, seeking in the future, enroll in a master's degree.

I'm also developing a Dart/Flutter library for modeling and implementation simplified form of Graphs, and in the future I want to expand to other languages such as Python and Rust. I also study concepts such as Design Patterns, Software Architectures, Clean Code, Rest API, and the Power BI business and data analytics service. I have experience in Linux distros such as Ubuntu, Manjaro and Microsoft WSL, in addition to the use of Git and GitFlow to project management and versioning.

## EDUCATION

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**STATE UNIVERSITY OF MARINGÁ**  
Computer Science

**start: 2016/04 - end: 2022/06**  
Maringá, Paraná

**SENAI ARTIFICIAL INTELLIGENCE HUB**  
Residency in Artificial Intelligence - Specialization

**start: 2022/09 - end: 2023/09**  
Londrina, Paraná

## EXPERIENCE

### SENAI ARTIFICIAL INTELLIGENCE HUB

start: 2022/09 - end: 2023/09

#### Resident

Business understanding &amp; how artificial intelligence can be applied to industry.

Londrina, Paraná

#### Cases:

- Natural language problems (classification and similarity)
- Computer vision models (GANs and classification)
- Data visualization (Dash)

### SENAI SOFTWARE FACTORY

start: 2023/10 - end: current

#### scholarship holder

Scholarship in Data Science in which I carry out projects for contracting companies using statistics and machine learning.

Londrina, Paraná

**technologies:** Exploratory Analysis, Data Cleansing, Pandas, Statistics, Series Temporal, Machine Learning, Deep Learning, TensorFlow.

## DEVELOPED PROJECTS

### EXPLORATORY DATA ANALYSIS FOR CREDIT LINES

Bunge

2022

Cleaning and analyzing customer data regarding lines of credit.

**technologies:** Exploratory Analysis, Data Cleaning, Pandas, Statistics.

### CLASSIFICATION MODEL FOR LINES OF CREDIT

Bunge

2023

Analysis and use of artificial intelligence for classification and approval of lines of credit through Api.

**technologies:** Pandas, Data Visualization, Random Forest - Scikit-learn, Flask, REST.

### REGRESSION MODEL FOR LINES OF CREDIT

Bunge

2023

Use of artificial intelligence for regression in credit line values through from Api.

**technologies:** Pandas, Data Visualization, LightGBM, Flask, REST.

### MODEL TRAINING AUTOMATION USING INPUT DATA

Bunge

2023

Automation and optimization in the process of choosing classification models and regression using the data entered.

**technologies:** Pandas, GridSearch, RandomSearch, Make, Flask, REST.

### PRODUCTION LINE TIME ANALYSIS

Volvo

2022

Exploratory analysis for detecting and issuing alarms at online delay points of production.

**technologies:** Pandas, Data Visualization, Seaborn, Streamlit.

### A.I. FOR MACHINE HOUR METERS

Volvo

2023

Regression model for remote machines that do not send data regularly.

**technologies:** Random Forest, LSTM - TensorFlow, Streamlit, Plotly.

### A.I. FOR HERBAL PATTERN IDENTIFICATION

Matte Leão

2023

Image classification model to identify herbs according to standards established by the company.

**technologies:** Data Vision, Pandas, MobileNet - PyTorch.

## A.I. FOR CLASSIFICATION OF NON-COMPLIANT HERBS AND MOBILE APP

Matte Leão  
2023

Optimization of the current model, model for classifying non-compliance of herbs and mobile application for accessing models from anywhere.

**technologies:** Data Vision, Pandas, MobileNet - PyTorch, Flutter.

## PERFORMANCE COMPARISON BETWEEN CONVOLUTIONAL MODELS FOR THE OXFORD-IIIT PET DATASET

UTFPR  
2024

Computer vision project for analysis and comparison of convolutional models in order to classify images using Transfer-learning and GRAD-CAM.

**technologies:** Data Vision, Pandas, MobileNet - TensorFlow, EfficientNet - TensorFlow, ResNet - TensorFlow, GRAD-CAM.

## DART LIBRARY FOR GRAPHS

personal  
current

Open source project for modeling and simplified implementation of Graphs for the Dart language. Future for Python and Rust.

**technologies:** Open Source Library, Dart, Graphs, Object-oriented Programming, Clean Code.

## SKILLS

### PROGRAMMING LANGUAGES

**Experienced:** Python | Dart | C

**Familiar:** Javascript/Typescript | SQL | Shell Script | Java

### FRAMEWORKS & TOOLS

Machine Learning | Deep Learning | Exploratory Data Analysis | Data Analysis | Computer vision | Data Visualization | Pandas | Scikit-learn | TensorFlow | Microsoft Power BI | PyTorch | Flask | Git | GitFlow | Make | LaTeX | Flutter | MySQL | Linux | NodeJs | Clean Code | Clean Architecture | Scrum | REST

### LANGUAGES

**advanced:** English

## EXTRA CURRICULAR ACTIVITIES

### ACADEMIA DO FLUTTER 2.0

2022/02 - Studying

Rodrigo Rahman

Complete course on Flutter frontend, backend, design patterns, state management and API consumption.

### POWER BI MINI-COURSE

2024/04

Leonardo Karpinski - Xperiun

Introductory short course to the Microsoft Power BI tool.