

Lucas Farias

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Pernambuco - Brazil

Year of birth: 1995

PROFESSIONAL GOAL

DATA SCIENTIST

SUMMARY OF QUALIFICATIONS

Researcher with a solid academic background in artificial intelligence, machine learning, and evolutionary computing. I am currently a CAPES scholarship holder for my PhD in Computer Science at the Federal University of Pernambuco. I have experience in relevant projects, standing out in modeling machine-learning techniques to solve complex problems.

Skills in programming languages, including Python, Java, SQL, Matlab, and C/C++. Experience with technologies and frameworks such as pandas, scikit-learn, numpy, scipy, NLTK. Proficient in using development tools such as Git. Furthermore, I have expertise in creating graphical reports using Streamlit and Power BI. My skills also encompass statistical modeling and machine learning.

ACADEMIC BACKGROUND

PhD in Computer Science – Universidade Federal de Pernambuco – 08/2019 – 03/2025

Master's Degree in Computer Science – Universidade Federal de Pernambuco – 03/2017 – 08/2019

Bachelor's Degree in Computer Science – Universidade Católica de Pernambuco – 02/2013 – 12/2016

Technologist in Information Technology Management - Universidade do Sul de Santa Catarina – 02/2013 - 07/2015

Non-Degree Course in Data Scientist - Escola Britânica de Artes Criativas e Tecnologia – 06/2023-03/2024

PROFESSIONAL EXPERIENCE

CAPES and CNPQ (Recife/Pernambuco) 3/2017 - Current

Master's and PhD scholarship

- Development of computational intelligence models related to the area of evolutionary computing.

Universidade Federal de Pernambuco (Recife/Pernambuco) 5/2021 - 5/2023

Temporary Lecturer

- Taught the subjects: Algorithms and Data Structure, Computational Methods, Electronic Computing, Numerical Calculation and Numerical Methods.

Faculdade Mauricio de Nassau (Olinda e Paulista/Pernambuco) 2/2020 - 6/2021

Lecturer

- Taught the following subjects: Database, Operating Systems, Formal Languages and Automata, Computer Organization and Architecture, Multimedia Systems, Computational Systems and IT.

Junta Comercial do Estado de Pernambuco (Recife/Pernambuco) 3/2016 - 12/2016

IT Intern

- Web programming, using HTML, CSS, Javascript and SQL.

Scientific Initiation Program (Recife/Pernambuco) 9/2014 - 8/2016

IC at the Universidade Católica de Pernambuco

- Application of machine learning techniques to deal with real problems in the field of chemical engineering.

SKILLS

- Programming languages: Python, Java, SQL, Matlab, and C/C++
- Technologies and Frameworks: pandas, scikit-learn, numpy, scipy, and NLTK
- Development Tools: Git
- Graphical Reports: Streamlit and Power BI
- Statistical modeling and machine learning, CRISP-DM data mining methodology
- Intermediary English B2 - [Certificate](#)

RELEVANT PROJECTS

Machine Learning Inverse Modeling for Expensive Optimization Problems 2020 - Atual

Papers published in renowned journals (Swarm and Evolutionary Computation, IEEE SMC, Information Sciences)

- Exploration of machine learning techniques for inverse modeling in expensive and large-scale optimization problems – [Paper#1](#), [Paper#2](#), [Paper#3](#), and [Paper#4](#)

Dashboards using Power BI 2023

Data visualization project with Power BI

- Creation of dashboards using data from COVID-19 vaccination in Pernambuco and sales from a Brazilian retailer – [dashboard-covid](#) e [dashboard-retail](#)

Analysis of the relationship of accidents with traffic lights and monitoring equipment 2023

Applied statistics project with data

- Statistical analysis of the Recife database to evaluate the effectiveness of traffic lights versus safety equipment – [Dashboard](#) e [Presentation](#)

Credit Card Grant Analysis 2023

Data Science Project

- Application of CRISP-DM in a financial database, using exploratory analysis and machine learning algorithms - [CRISP-DM](#)
- Web Application for Diabetes Prediction made in Streamlit – [diabetes-streamlit](#)

Exploratory Credit Data Analysis 2023

Data Analysis Project

- Application of CRISP-DM in a financial database, using exploratory analysis and machine learning algorithms – [Kaggle](#)

Where is this? 2019

Cognitive robotics project

- TIAGo robot simulation using ROS, speech recognition (NLP) and SLAM – [Presentation](#)

COMPLEMENTARY COURSES/ACTIVITIES/CERTIFICATES

- Python for Data Science, AI & Development – IBM – 2023
- Data Science Methodology – IBM – 2023
- Tools for Data Science – IBM – 2023
- Scrum Foundations Professional Certificate (SFPC) – CertiProf – 2019
- Academic honors in Bachelor of Science in Computer Science – UNICAP - 2016

VOLUNTEER WORK

- Journal reviewer - Swarm and Evolutionary Computation, Soft Computing and Information Sciences – 2022 / Current
- Speaker - Understand about Big Data and Me-wow using deep learning to recognize felines – UNICAP/UNINASSAU – 2021
- Panel Discussion - Big Data: the world will no longer be the same – TCE-PE – 2020 - [Recording](#)

INTERNATIONAL EXPERIENCE

- Paper presentation – IEEE SMC Conference – Melbourne, Australia (Remote) – 2021 – [Recording](#)
- Paper presentation – IEEE SMC Conference – Bari, Italy – 2019
- Paper presentation – GECCO Conference – Kyoto, Japan – 2018