Pedro Martins Moreira Neto

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EDUCATION

Specialisation in Data Science and Big Data **Jun 2019**
Federal University of Paraná, Curitiba, Brazil
Department of Statics and Department of Informatics

Bachelor of Science in Biomedical Informatics **Dec 2017**
Federal University of Paraná, Curitiba, Brazil
Project: Extracting Lungs from CT Images using Deep Semantic Segmentation

Bachelor of Science in Biomedical Informatics **Dec 2015**
Arizona State University Tempe, Arizona
Exchange student through the Brazilian Scientific Mobility Program
Project: iDECIDE Smartphone App for Personalized Messages for Nutrition and Fitness Goals.

WORK EXPERIENCE

Staff Machine Learning Engineer, Balkan ID, US - Remote Sep 2022 - Current
At Balkan, we are responsible for architecting and implementing a machine learning pipeline to provide intelligent recommendations for clients using BalkanID software. The workflow includes data processing, modeling the problem using heuristics, clustering, and graph neural networks algorithms, and delivering the predictions to the front end to consume. We also make sure to make our system scalable and memory-optimized by using distributed computing techniques.

Senior Machine Learning Engineer, Data Revenue, Berlin - Remote Jun 2019 - Oct 2022.
I was responsible for architecting, building, and shipping several machine learning systems for different clients. And, I periodically communicate with clients to understand requirements and give updates as needed. Some of my responsibilities also span project management and team management.

Machine Learning Analyst. Rentcars.com - Curitiba, PR - Brazil Nov 2018 – Jun 2019
Responsible for architect and developing a machine learning-based recommendation system. Working in the complete cycle of machine learning systems: fetching data, data wrangling, engineering, applying various algorithms, deploying into AWS eco-system, and performance monitoring.

Software Engineering Volunteer, Arizona State University, Tempe, AZ Jan 2015 - Apr 2016
I've worked in the iDecide research team in the Biomedical Informatics Department, building a hybrid mobile application to collect health data from diabetic patients. The app and the study were awarded a poster by the American Medical Informatics Association and a paper published in the Journal of Diabetes Science and Technology.

Research Assistant, Harvard Medical School CHIP, Boston, MA May 2015 - Aug 2015
In the Computational Health Informatics Program at Harvard Medical School, I worked as a research assistant conducting data analysis to find how the recurrent usage of specific medications was related to the incidence of falling in older adults aged 65 years old.

TECH STACK

Development

- About 4 years of python development using TDD Principles.
- Comfortable with concepts of Machine Learning and Data Science and familiar with the most common libraries in these fields:
    - **Pandas, NumPy, Dask, and SkLearn.**
- Experience in building Discrete Events Simulation systems with **Simpy** and **Casymda**.
- Pipeline orchestration with **Prefect** and Luigi

DevOps & MLOps

- Built several containerized applications with Docker.
- Experience with deploying, debugging, and managing applications on **Kubernetes**.
- Experience DevOps and MLOps tools like CI/CD, **Kustomize**, and **FluxCD** for GitOPS.
- Familiar with cloud services such as Azure and AWS.

SOFT SKILLS:

- Advanced oral and written communication in English and Portuguese;
- I comfortably work with a multidisciplinary and remote team
- Open to receiving feedback and also giving one when necessary

ADDITIONAL INFORMATION

Honours: Brazil Scientific Mobility Program scholarship recipient 2014 - 2015;
Dean's List for the College of Health at ASU in 2015

Academia:

- Poster in the American Medical Informatics Association 2015;
  Paper published in the Journal of Diabetes Science and Technology (A Methodology to Compare Insulin Dosing Recommendations in Real-Life Settings, Danielle Groat, Maria A. Grando, et al.)
  http://journals.sagepub.com/doi/abs/10.1177/1932296817704444

- Capstone Project: Extracting Lungs from CT Images using Fully Convolutional Networks.
  Paper published at IJCNN - IEEE International Joint Conference on Neural Networks
  https://arxiv.org/abs/1804.10704.