Eduardo de Andrade Nogueira

Senior Data Scientist

Vicenza, Veneto, Italy

Dual Citizen Italy and Brazil

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Skills

Programing Languages
: Python, Matlab

Databases
: MySQL, SQLite, MongoDB

AI Frameworks
: TensorFlow, PyTorch, Scikit-Learn

Data Analysis
: Pandas, NumPy, SciPy, GeoPandas

Data Visualization
: Plotly, Matplotlib, Seaborn, Plotly, Folium

Version Control
: Git, GitLab

Cloud
: Google Cloud, Amazon Web Services (AWS), Azure

Management
: Agile methodologies

Big Data Tools
: Spark

Languages

Portuguese

English

About me

I am Eduardo, a Senior Data Scientist and Ph.D Student with more than 5 years of experience in various domains such as signal processing, image analysis, structured data, and geospatial intelligence. I have led and participated in several projects that involved creating a geospatial intelligence products and general solutions for our client base. These products improved the performance and revenue of our clients and attracted new customers. I have played different roles in my career, such as Data Scientist, Team Leader, and Teaching Intern. I have worked closely with clients and stakeholders, offering a business view and ensuring coordination among sales, development, and delivery. I have also taught students about artificial neural networks and electrical machines, improving my communication skills and ability to explain complex AI concepts. I am currently working on a less invasive technique for detecting heart failure using echocardiogram signals. This project combines my expertise in engineering and medicine and aims to improve the quality of life of patients.

Work Experiences

Feb 2022 - Current
: Senior Data Scientist
Kognita Lab
In this role, I was responsible for transforming a geospatial intelligence product that was originally designed for a specific client into a scalable solution that could be applied to different data domains and markets. I managed a dynamic team of data scientists, engineers, and analysts and implemented processes to ensure the product's scalability and reliability. This initiative improved the operational process by reducing errors, increasing efficiency, and automating tasks. It also drove substantial revenue growth for the company by attracting new customers from various sectors and regions. I also participated in negotiations with new customers. This experience gave me a business view and enhanced my skills in communication.

Mar 2021 - Jan 2022
: Mid-Level Data Scientist
Kognita Lab
In this role, I was entrusted with the dual responsibility of not only spearheading the development process of the geospatial intelligence system but also proactively interfacing with customers to solicit their feedbacks. This hands-on experience with customer interaction proved instrumental in enabling me to make substantial contributions towards refining the product, thereby ensuring its optimal alignment with the needs and expectations of the users. The culmination of these efforts was the successful launch of the product in the market, which was further validated by the acquisition of our first customers.

Jan 2020 - Feb 2021
: Junior Data Scientist
Kognita Lab
In this role, I was primarily tasked with the development of an innovative image processing methodology. This approach resulted in a remarkable 80% improvement in image quality, a fact that was substantiated through rigorous A/B testing. Additionally, this methodology also led to a significant reduction in processing time by 50%, thereby enhancing efficiency. Concurrently, I was also involved in the initial stages of the companys flagship product - a geospatial intelligence system designed to aid businesses in identifying the most strategic locations for their stores. My primary contribution in this project was researching and identifying viable methods to develop the concept. This role allowed me to leverage my technical skills while also gaining valuable insights into product development and market strategy.

Jul 2018 - Dec 2019
: Teaching Intern
Federal Technological University of Paraná
In this role, I made substantial contributions to the academic growth of students by providing instruction in complex subjects such as artificial neural networks, electrical machines, and dynamic modeling of electrical machines. This role not only allowed me to impart knowledge but also offered me the opportunity to refine my own skills, particularly in the area of communication. I was able to develop the ability to explain intricate concepts with clarity and precision, ensuring that they were comprehensible to a diverse audience. This experience underscored the importance of effective communication in education and reinforced my commitment to fostering an inclusive and engaging learning environment.

Education

Aug 2020 - Current
: Ph.D in Biomedical Engineering
Polytechnic School of the University of São Paulo (Poli/USP)
GPA: 4.0/4.0
My Ph.D research focuses on the development of a less invasive technique for detecting heart failure with preserved ejection fraction. This innovative approach leverages the strain signals derived from echocardiogram examinations, a common diagnostic tool in the field of cardiology. I am an active contributor to a diverse team of professionals, each bringing their own unique skills and experiences to the table.

Mar 2018 - Jun 2020
: M.Sc in Electrical Engineering
Federal Technological University of Paraná
GPA: 4.0/4.0
In my master's research, focused on the creation of a system capable of analyzing the operational signals of the three phase electric motors. The primary aim of this system was to identify potential failures before they could cause significant issues. This was achieved through the application of artificial intelligence techniques, which allowed for a more nuanced and accurate analysis than traditional methods. The results of this research were successful, demonstrating the effectiveness of the system in accurately predicting potential failures and contributing to the optimization of production processes.

Sep 2013 - Feb 2018
: B.Sc in Electrical Engineering
Federal Technological University of Paraná
GPA: 3.0/4.0
During my undergraduate studies, I specialized in the development of Internet of Things (IoT) platforms. One of my significant projects involved the creation of a mesh electrical machine monitoring system. This project not only showcased the practical application of IoT in industrial settings but also highlighted the transformative potential of real-time data in improving system efficiency.