Allan Spadini

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The perfect candidate

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## Professional Summary

I am a Data Science and Artificial Intelligence professional with a strong passion for transforming education through advanced data analysis and AI-driven solutions. With extensive experience in Python, Machine Learning, Deep Learning, and Big Data, I have led impactful educational projects, always focused on maximizing student success through evidence-based strategies. Currently, I am an instructor of Data Science at Alura, where I also coordinated the development of the Data Science undergraduate program and created numerous educational materials. My background in Geophysics, with a Ph.D. from the University of São Paulo and international experience at Delft University of Technology, equips me with a robust analytical skill set, which I apply to solve complex problems in education and beyond.

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## Core Competencies

- Educational Data Analysis

- AI Implementation in EdTech

- Data-Driven Educational Strategies

- Deep Learning

- Natural Language Processing (NLP)

- Computer Vision

- Python, Spark, BigQuery

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## Professional Experience

\*\*Alura\*\*

\*São Paulo, Brazil\*

\*Instructor of Data Science\*

\*December 2022 - Present\*

- Conducted in-depth analyses of student performance data to identify learning gaps and tailor course content, resulting in measurable improvements in academic outcomes.

- Implemented AI techniques to personalize educational materials, leading to enhanced knowledge retention and student engagement.

- Developed and delivered Data Science courses, focusing on hands-on applications of machine learning and data analysis in real-world scenarios.

\*\*Teaching Coordinator, Data Science Undergraduate Program\*\*

\*August 2021 - December 2022\*

- Led the curriculum design for Alura's Data Science undergraduate program, integrating cutting-edge tools and methodologies to prepare students for careers in the tech industry.

- Utilized data-driven insights to continuously refine course offerings, ensuring alignment with industry needs and technological advancements.

\*\*Technische Universiteit Delft\*\*

\*Delft, Netherlands\*

\*Research Intern\*

\*August 2015 - February 2016\*

- Conducted advanced geophysical data analysis, developing innovative methods for interpreting complex datasets.

- Applied these analytical techniques to uncover patterns that are directly transferable to identifying trends in educational data.

\*\*GPR Geophysics Ltda\*\*

\*São Paulo, Brazil\*

\*Geophysicist\*

\*August 2009 - February 2010\*

- Managed seismic, electrical, and electromagnetic data processing, providing valuable insights into subsurface structures.

- Developed analytical skills and a deep understanding of data interpretation, foundational for transitioning into Data Science.

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## Education

\*\*University of São Paulo\*\*

\*Ph.D. in Geophysics and Seismology\*

\*2012 - 2018\*

- Dissertation focused on the mathematical inversion of seismic data, utilizing advanced computational methods, with experience directly applicable to the analysis of educational data for optimizing learning outcomes.

\*\*University of São Paulo\*\*

\*Master’s in Geophysics\*

\*2010 - 2012\*

\*\*University of São Paulo\*\*

\*Bachelor’s in Geophysics\*

\*2004 - 2009\*

\*\*Descomplica Digital College\*\*

\*Postgraduate Lato Sensu, Data Science\*

\*April 2023 - December 2023\*

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## Certifications

- TensorFlow Developer - Professional Certificate

- Google Data Analytics - Professional Certificate

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## Publications

* Time Series with Prophet: Data Analysis and Forecasting with Python

<https://www.casadocodigo.com.br/products/livro-series-temporais-prophet>

* Classification: combining classifiers to improve performance

<https://cursos.alura.com.br/course/classificacao-combinando-classificadores-melhoria-performance>

* TensorFlow Keras: Classifying Images with Convolutional Networks

<https://cursos.alura.com.br/course/tensorflow-keras-classificando-imagens-redes-convolucionais>

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### \*\*Languages\*\*

- English (Full Professional Proficiency)

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