DEIVID SMARZARO

📍 Espírito Santo, Brazil

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🔘 GitHub   in LinkedIn

Summary

Data Scientist with 5 years of experience in Python, 4 years with computer vision and hands-on experience with Tensorflow, Pytorch, Docker, MLflow, SQL and Azure. Experienced in remote teams both in English and French, agile methodologies and research.

Skills

- **Technologies:** Python, SQL, VBA, Excel, MATLAB.
- **Frameworks & Tools:** Tensorflow, Pytorch, HuggingFace, CrewAI, RAG, Langchain, Scikit-learn, FastAPI, Flask, Docker, MLFlow, Azure Pipelines and Board, unit tests
- **Languages: Bilingual**: English & Portuguese — French B1 — Spanish B1

Experience

BENTLEY SYSTEMS   📅 May/2024 — present
Machine Learning Engineer— Python, Pytorch, Azure, MLFLow, Langchain, Leadership   📍 *REMOTE*

- Trained and evaluated pre-trained segmentation models using **Python** and **Azure Pipelines**. Compared multiple models and developed a better version of current one by 5%.
- Engineered an internal Copilot chatbot to provide instant access to siloed documentation, boosting the support team's overall productivity by enabling them to handle 10% more cases weekly.
- Mentored international teams on technical storytelling and presentation delivery for Bentley's Digital Twin Competition, resulting in multiple commendations for clarity and impact.

FREELANCER   📅 Nov/2020 — present
Python Instructor — Pandas, NumPy, Scikit-learn, Tensorflow   📍 *REMOTE*

- Improved the skills of over 90 individuals, spanning from undergraduates to Ph.D. candidates, over a period of more than 5 years, covering foundational concepts and progressing into advanced machine learning topics.
- Identified and resolved hidden misunderstandings to foster a solid foundational knowledge and enable progression to advanced topics.

Education

FEDERAL INSTITUTE OF ESPÍRITO SANTO   📅 Feb/2020 — Dec/2025
Bachelor of Electrical Engineering — Research, Data Analysis, Deep Learning   📍 *ES, BRAZIL*

- Developed a final thesis in AI Explainability for Healthcare analysis. Trained and compared 3 LSTM models over an ECG dataset and applied 2 explainability algorithms to the outputs following a scientific methodology.

Extracurriculars

ENACTUS UK & BENTLEY'S ITWIN4GOOD WORLD CUP   📅 Aug/2023 — Apr/2024
Winning team — Object detection, YOLO, Websocket, Python   📍 *LONDON, UK*

- Developed a computer vision-based solution to optimize blood donation centers by tracking wait times and transmitting **real-time** data to the iTwin platform.
- Delivered a 5 minutes pitch on context, SDG alignment, live solution demonstration, and highlighted solution impact while addressing audience questions in the headquarters of Bentley Systems in London.

ENACTUS BRAZIL   📅 July/2021 — July/2025
Team Leader, Volunteer — People management, Writing, Time management, Planning   📍 *ES, BRAZIL*

- Led a team of 20 students targeting SDG impact within the local community, implementing team processes guiding the team towards a goal-oriented work.
- Successfully secured over **$3000** in financial support through persuasive writing in grant applications.

Research Experience

FEDERAL INSTITUTE OF ESPÍRITO SANTO   📅 Aug/2020 — Aug/2024
Undergraduate Researcher — Python, Matplotlib, Docker, FFmpeg   📍 *ES, BRAZIL*

- Engaged in ongoing Computer Vision research, emphasizing applications in public health, particularly on leg amputees.
- Developed a Multi-Camera Calibration System in Python to capture human movement, achieving an error margin of less than 4cm.
- Implemented functionality to measure and plot body angles and speed over time.