

# JESSICA SCIAMMARELLI

Rio de Janeiro, Brazil | Remote / International

+1 (302) 208-7949 | +55 (21) 99176-5023

[jessicaengenhariabr@hotmail.com](mailto:jessicaengenhariabr@hotmail.com)

LinkedIn: [linkedin.com/in/jessicasciammarelli](https://www.linkedin.com/in/jessicasciammarelli)

GitHub: [github.com/deeplearningworld](https://github.com/deeplearningworld)

ORCID: 0009-0001-2884-7444 | IEEE Senior Member

---

## EXECUTIVE SUMMARY

AI and Data Architect with a PhD in Computer Science and extensive international experience designing and deploying AI, data, and cybersecurity solutions in complex, regulated environments. Strong expertise in AI architecture, MLOps, governance, and secure cloud platforms. Combines academic research, enterprise consulting, and executive advisory to deliver scalable, business-aligned solutions. Active open-source contributor and published researcher.

---

## CORE EXPERTISE

AI and Data Architecture | MLOps and AI Pipelines | AI Governance and Risk (ISO 42001, NIST, EU AI Act)

Machine Learning, Deep Learning, NLP, LLMs, RAG, Multi-Agent Systems

Cloud and Big Data (AWS, Azure, GCP Spark, Hadoop) | Data Engineering and Analytics

Cybersecurity Architecture, SOC, Threat Intelligence, Digital Forensics, Ethical Hacker

Data Governance, Privacy and Compliance (ISO 27001, LGPD, DAMA-DMBOK)

AI Security (OWASP, MITRE Atlas)

Technical Leadership, Consulting and Stakeholder Management

---

## PROFESSIONAL EXPERIENCE

**Emerging Technology and Cybersecurity Consultant – CyberAlliance | USA (Remote) Sep 2022 – Present**

- Delivered AI, data engineering, blockchain, and cybersecurity solutions across industries
- Designed AWS-based data platforms and AI-driven analytics systems
- Advised executives on AI adoption, governance, and security strategy

## **University Professor and Adjunct Faculty – USA and Europe (Remote)**

Nov 2023 – Present

- Teach graduate-level courses in AI and cybersecurity
- Design curricula, labs, and applied learning programs
- Supervise student research and real-world projects

## **AI and Data Architect – IVI Data Science | Brazil (Remote)**

May 2025 – Jul 2025

- Led end-to-end design of scalable AI and data architectures for enterprise environments
- Built AI/ML pipelines covering ingestion, feature engineering, training, deployment, and monitoring
- Defined governance, security, and privacy standards across cloud and hybrid systems
- Collaborated with cross-functional teams to align AI solutions with business strategy

## **Artificial Intelligence Researcher / AI Specialist – SIDIA (Samsung Institute) | Brazil**

Oct 2024 – Apr 2025

- Conducted applied AI research in machine learning, NLP, and intelligent systems
- Developed algorithms and production-ready AI tools
- Contributed to scientific publications and technical reports
- Mentored teams and improved research-to-production workflows

## **Judicial Expert (Court-Appointed) – Court of Justice of Rio de Janeiro | Brazil**

Jun 2024 – Dec 2024

- Acted as expert in AI, cybersecurity, and digital forensics cases
- Produced technical reports and analyzed digital evidence

---

## **EDUCATION**

PhD in Computer Science – Bircham International University (2023)

MSc in Artificial Intelligence – University of Alcalá (2022)  
MSc in Cybersecurity and Cyberwarfare – INISEG (2022)  
MSc in Blockchain and FinTech – IEBS Business School (2021)  
MBA in Global Business Administration – MIA Digital University (2021)  
MBA in Cybersecurity and Cybercrimes – Anhuera University (2021)  
Postgraduate in Neuroscience, Neuroengineering and Neurorobotics – Unyleya (2025)  
MBA in Project Management and Artificial Intelligence – Unyleya (2026)  
BSc in Computer Science – Atlantic International University (2020)

---

## **CERTIFICATIONS (SELECTED)**

Chief AI Officer (ISO 42001, ISO 23894, ISO 38507, NIST AI RMF, EU AI Act)  
Certified Ethical Hacker Master – EC-Council  
SOC Analyst, Incident Handler, Threat Intelligence Analyst – EC-Council  
Cloud Engineer, Encryption Specialist – EC-Council  
ISO 27001, ISO 27002, ISO 38505 | Scrum Master | ITIL 4 | COBIT 2019

---

## **TECHNOLOGIES**

Python, R, Golang, JavaScript, C++, Solidity, TensorFlow, PyTorch, Keras, Spark, Hadoop  
FastAPI, Flask, Streamlit, AWS, Databases, Linux, DevOps and MLOps, RAG, Agents, MARL,  
CrewAI, Langchain, Garak, PyRit, ART.

---

## **PUBLICATIONS AND ACHIEVEMENTS**

- Author: "How to Benefit from Artificial Intelligence in the 21st Century"  
Co-author: "Women in Artificial Intelligence"  
Scientific publications indexed via ORCID profile
- Creator of SafeQuant SLM – open-source framework for secure and efficient AI model quantization and deployment  
PyPI: `pip install safequant-slm`  
GitHub: [https://lnkd.in/d7Xw\\_wVF](https://lnkd.in/d7Xw_wVF)  
Technical Deep Dive: <https://lnkd.in/dJdFcqfp>
- Patent registrations in AI, robotics, and augmented intelligence  
Instructor and content creator for AI and Blockchain courses (edX and others)