MARIA DIAZ ALBA

📞 +1 786 569 9158 | ✉ m.mariadiazalba@gmail.com | ⭘ mdiaz683 | 🔗 maria-diaz-alba | 🔗 mdiaz683.github.io

EXPERIENCE

Cordis Corporation
Data Science & AI Engineering (Internship)

Jul 2025 – Present
Miami, FL, US

- Supported AI integration and data-driven process optimization for different business challenges.
- **Inventory Forecasting Model for Supply Chain Optimization**
  - ∗ Developed a machine learning model to forecast product demand and optimize inventory capacity planning to improve stocking accuracy and reduce overages.
- **Web Application for Financial Reconciliation Automation**
  - ∗ Built a lightweight web-based tool that streamlined the reconciliation of planned vs. actual expenses, eliminating the need for manual spreadsheet manipulation.

NTT DATA Europe & Latam
Digital Technology Consultant - AI/ML & Security (Internship)

May 2025 – Jul 2025
Miami, FL, US

- Participated in the development of an enterprise AI governance and operationalization framework, aligning with industry standards such as the NIST AI Risk Management Framework.
- Performed a technical and strategic evaluation of **Azure's AI Foundry stack** to assess its alignment with the framework and uncover key capabilities and gaps in supporting enterprise AI readiness and compliance.

TRC Informatica S.L
Cyber Intelligence / AI Solutions Researcher (Internship)

Mar 2024 – Jul 2024
Madrid, Spain

- Worked with cyber intelligence team to implement innovative security measures based on threat hunting and leak detection.
- **Credential Risk Assessment Tool**
  - ∗ Developed an AI-driven tool using ML techniques to assess risk levels for credentials detected in Telegram data leaks, leveraging a custom bot built with the Telegram API to automate data collection, prioritize analysis, and boost evaluation efficiency.

EDUCATION

Florida International University
Master of Science in Applied Artificial Intelligence & IoT, GPA: 3.82/4.0

Aug 2024 – Jul 2025
Miami, FL, US

- Machine Learning | Deep Learning | Data Engineering | Generative AI
- Expertise in deploying AI solutions for training, fine-tuning, and inference in IoT and other applications.

Universidad de Alcalá de Henares
B.Sc. in Forensic Sciences and Technologies, GPA: 8.2/10.0

Sep 2020 – May 2024
Madrid, Spain

- Digital Investigation on Mobile Devices and Apps | Cybersecurity | Procedural and Criminal Law
- Thesis: *OSINT Tools for Social Media Investigations* under the supervision of Prof. Manuel Sánchez Rubio.

Université de Lausanne
B.Sc. in Forensic Sciences and Technologies, GPA: 3.90/4.0

Aug 2023 – Feb 2024
Lausanne, Switzerland

- ERASMUS+ Program (Exchange Scholarship)

PUBLICATIONS

AI-Driven Biometric Intelligence: Gender Prediction via CNN-Based Fingerprint Analysis.   2024-2025
Book chapter to be included in the forthcoming volume *AI-Enabled Forensic Investigations Network in Digital Sciences*, edited by Prof. S. S. Iyengar (Springer Nature).

- Explored the application of deep learning architectures (CNNs) that capture distinctive features for gender prediction from fingerprint images, emphasizing their relevance in forensic science and biometric security.

CONFERENCES

Speaker at AI-Enabled Forensic Investigations Network in Digital Sciences Conference   May 2025
"AI-Driven Biometric Intelligence: Gender Prediction via CNN-Based Fingerprint Analysis" - *FIU*   Miami, USA

Speaker at CNN-CERT (National Cryptologic Center) Cyberdefense Conference   Nov 2024
"Development of a Telegram tool for detecting exfiltrated passwords" - *TRC Informatica S.L*   Madrid, Spain

Technical Skills

Programming Languages: Python, SQL, MATLAB
Libraries: TensorFlow, PyTorch, Streamlit, scikit-learn, Keras, NumPy, PySpark, Pandas, Matplotlib
Software: Azure AI Foundry, Power Automate , Power BI, Excel, Tableau, GitHub, VS Code, ChatGPT, JupyterNb, LaTeX
Hardware: Raspberry Pi, Arduino

Certificates

Azure AI Fundamentals (AI-900) Dec 2024
Microsoft Certified

Azure Big Data (DP-900) Feb 2025
Microsoft Certified

Language Proficiency

English (fluent), **French** (advanced), **Spanish** (native)

Last updated on November 12, 2025. Certificates, references and transcripts available upon request.