

DANIEL R. DORAN, Eng.D., PMP

Data Scientist | AI & ML Engineer

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PROFILE SUMMARY

Applied AI/ML practitioner with a proven track record of scoping, building, and integrating decision-support analytics in government and IGO settings. In my doctoral work I focus on applying causal ML and offline contextual bandit methods to derive site-specific fertilizer recommendations that boost farmers' profits by 6% while staying within empirically supported practices. Presented research at the International Crop Modeling Symposium (iCROPM 2026).

PROFESSIONAL EXPERIENCE

AI & ML Engineer

United Nations ESCWA, Beirut | April 2025 – Present

- Proposed, scoped with senior executives, and now leading development of a bilingual RAG policy assistant tailored to conflict early-warning/prevention
- Conduct econometric/statistical analyses researching conflict's impact on socio-economic development; author policy-oriented publications consumed by regional and national leadership

Data Scientist

Booz Allen, Washington DC, USA | July 2024 – April 2025

- Owned NLP/semantic search model training and optimization
- Conducted data analytics, data engineering, and predictive and statistical analyses to correlate data into graphical, written, and verbal narrative products, enabling more informed analytic decisions

Data Scientist & Software Engineer

Prescient Edge, Washington DC, USA | January 2024 – July 2024

- Analyzed large and complex data sets and developed custom data visualizations to communicate analytical results to non-technical stakeholders
- Developed and maintained front-end web application components using React, enhancing user experience and ensuring seamless integration with backend services

Data Engineer

STEMboard & Occam Solutions, Tampa, USA | May 2023 – January 2024

- Implemented and automated multimodal ETL pipelines at US Special Operations Command, processing audio, image, and video data, and ensuring accurate and timely availability for analysis
- Led courses in data science and data literacy to train military leadership

Statistics Intern

United Nations ECLAC, Mexico City | April 2022 – September 2022

- Conducted econometric/statistical analyses on agriculture and food security; authored policy-oriented analytics consumed by regional and national leadership

Submarine Officer

US Navy, USS Georgia / CTF 69 | 2013 – 2020

- Led 60+ personnel in high-stakes environments; fused sensor/navigation data for real-time decisions during narrow-strait and high-risk missions

EDUCATION

Eng.D. in AI and Machine Learning

George Washington University, Washington D.C., USA | December 2025

Masters in International Development and Cooperation

Universidade de Lisboa / Université Paris-Saclay, Lisbon / Paris | January 2023

Applied Data Science Program

MIT, Cambridge, USA | February 2023

M.S. in Applied Mathematics

University of Southern California, Los Angeles, USA | December 2016

B.S. in Mathematics

University of Southern California, Los Angeles, USA | May 2013

SKILLS

Programming: Python, R, SQL

Machine Learning: PyTorch, TensorFlow, scikit-learn, Causal ML, NLP

LLM & Agentic AI: RAG, LLM fine-tuning, Prompt engineering, LangChain, LangGraph, Hugging Face, Vector DBs

Data & Cloud: Apache Spark, Pandas, NumPy, AWS, Docker, Git

Web & Visualization: React, Flask, Streamlit, REST APIs, Tableau, Power BI

CERTIFICATIONS

Project Management Professional (PMP), Project Management Institute | December 2023

LANGUAGES

English: Native | **Spanish, Portuguese, French, Italian:** Fluent (C1) | **Chinese, Arabic:** Elementary (A2)