

# DANIEL R. DORAN, Eng.D., PMP

Data Scientist | AI & ML Engineer

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## PROFILE SUMMARY

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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

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### Associate Economic Affairs Officer (AI 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

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## **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**

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**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**

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

## **LANGUAGES**

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