

# Daniel Short

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## DATA SCIENTIST | MACHINE LEARNING

Data scientist with 3 years of experience translating ML insights into over 500% KPI gains for tourism, retail and industrial clients. Expert in Python (PyTorch, scikit-learn), SQL, and Gen-AI (LLMs, RAG). Known for automating data pipelines that save 200+ hours per year and presenting findings to C-level audiences.

## TECHNICAL SKILLS

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- **Generative AI (Gen AI)** - Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Low-Rank Adaptation (LoRA) fine-tuning, Embeddings, Transformers
- **Deep-Learning** - Autoencoders, Variational Autoencoders (VAEs), Convolution Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Reinforcement Learning (RL)
- **Python** - PyTorch, TensorFlow, scikit-learn (Decision Trees, Random Forests), Pandas, NumPy
- **SQL** - PostgreSQL, MSSQL, SQLite; Views, Stored Procedures (SPs), Common Table Expressions (CTEs)

## WORK EXPERIENCE

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<b>Business Analyst</b> Visit Grand Junction	<b>February 2024 – Present</b> Grand Junction, CO
<ul style="list-style-type: none"><li>• Automate weekly reporting in Python, cutting turnaround time by 99%, saving 200+ hours per year.</li><li>• Deploy an NLP link-repair model that lifted site traffic 750% and engagement 56%.</li><li>• Drive 565% jump in page-views and 122% more sessions by embedding ML insights in campaigns.</li></ul>	
<b>AI Data Quality Analyst</b> Randall Reilly	<b>November 2023 – January 2024</b> Remote
<ul style="list-style-type: none"><li>• Re-platformed R workflows to a one-click Python app, trimming processing time 95%.</li><li>• Built decision-tree models that expanded serial-number tracking by over 10x while flagging anomalies with 98% precision.</li><li>• Developed an autoencoder model using PyTorch, improving data quality through error detection.</li></ul>	
<b>Asset Protection Data Analyst</b> Target	<b>June 2022 – November 2023</b> Montrose, CO
<ul style="list-style-type: none"><li>• Designed enterprise dashboards adopted company-wide, surfacing trends that raised theft reports 57.6%.</li><li>• Analytics-driven initiatives increased theft prevention by 180%, and inventory loss by 24%.</li><li>• Presented technical information to non-technical audiences, translating analytics into operational action.</li></ul>	

## EDUCATION & CERTIFICATIONS

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| • <b>M.S. Data Science</b> , Eastern University - GPA: 4.0/4.0         | <b>May 2025</b> |
| • <b>B.S. Data Analytics</b> , Purdue University Global - GPA: 3.6/4.0 | <b>May 2023</b> |

[IBM Data Analyst](#), [IBM Machine Learning](#), [Google Analytics](#), [Google Data Analytics](#), [Google Advanced Data Analytics](#)

## PROJECTS

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- [Sheet Music Watermark Removal](#) - Implemented an ML pipeline to remove watermarks and upscale sheet music.
- [Synthetic Digit Generator](#) – Developed a VAE to learn and generate latent representations of MNIST digit images.
- [Nonogram Solver](#) – Created a reinforcement learning model to solve Nonogram games (94% solve rate).
- [Chatbot \(LoRA + RAG\)](#) - Fine-tuned Mistral model with LoRA and a FAISS-backed RAG stack to deliver source-cited answers via a Gradio UI, providing the brand voice and information to the consumer.