**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**

**• 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**

**Business Analyst February 2024 – Present**

Visit Grand JunctionGrand Junction, CO

• Automate weekly reporting in Python, cutting turnaround time by 99%, saving 200+ hours per year.

• Deploy an NLP link‑repair model that lifted site traffic 750% and engagement 56%.

• Drive 565% jump in page‑views and 122% more sessions by embedding ML insights in campaigns.

**AI Data Quality Analyst November 2023 – January 2024**

RandallReillyRemote

• Re‑platformed R workflows to a one‑click Python app, trimming processing time 95%.

• Built decision-tree models that expanded serial-number tracking by over 10x while flagging anomalies with 98% precision.

• Developed an autoencoder model using PyTorch, improving data quality through error detection.

**Asset Protection Data Analyst June 2022 – November 2023**

TargetMontrose, CO

• Designed enterprise dashboards adopted company-wide, surfacing trends that raised theft reports 57.6%.

• Analytics‑driven initiatives increased theft prevention by 180%, and inventory loss by 24%.

• Presented technical information to non-technical audiences, translating analytics into operational action.

**EDUCATION & CERTIFICATIONS**

• **M.S. Data Science**, Eastern University - GPA: 4.0/4.0 **May 2025**

• [**B.S. Data Analytics**](https://www.credential.net/0f4df6f1-112e-4e4e-8cb1-b97e7ecd3a3b), Purdue University Global **-** GPA: 3.6/4.0 **May 2023**

[**IBM Data Analyst**](https://www.coursera.org/account/accomplishments/specialization/certificate/CYUMPN7ZQRDA), [**IBM Machine Learning**](https://www.coursera.org/account/accomplishments/specialization/certificate/7262X6HH5NF2), [**Google Analytics**](https://skillshop.credential.net/2b2a612a-fbe8-4bbd-b882-0536b2f1d96a#acc.TIUSmxi7), [**Google Data Analytics**](https://www.coursera.org/account/accomplishments/specialization/certificate/N6MNKYE4MKEP), [**Google Advanced Data Analytics**](https://www.coursera.org/account/accomplishments/specialization/certificate/K47AGB33F8VS)

**PROJECTS**

•[**Sheet Music Watermark Removal**](https://www.danielshort.me/portfolio.html?utm_source=resume&utm_medium=website&utm_content=sheetMusicUpscale#sheetMusicUpscale) - Implemented an ML pipeline to remove watermarks and upscale sheet music.

• [**Synthetic Digit Generator**](https://www.danielshort.me/portfolio.html?utm_source=resume&utm_medium=website&utm_content=digitGenerator#digitGenerator) - Developed a VAE to learn and generate latent representations of MNIST digit images.

• [**Nonogram Solver**](https://www.danielshort.me/portfolio.html?utm_source=resume&utm_medium=website&utm_content=nonogram#nonogram) - Created a reinforcement learning model to solve Nonogram games (94% solve rate).

• [**Chatbot (LoRA + RAG)**](https://www.danielshort.me/portfolio.html?utm_source=resume&utm_medium=website&utm_content=chatbotLora#chatbotLora) - 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.