

Daniel Short

DATA SCIENTIST | NLP, ML & DEPLOYMENT

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TECHNICAL SKILLS

- **Modeling** - Python, PyTorch, scikit-learn, TensorFlow, Classification, Anomaly Detection
- **NLP & LLMs** - Embeddings, FAISS, Semantic Search, RAG, LoRA Fine-Tuning, Transformers
- **Deployment** - Docker, AWS Lambda, SageMaker, APIs, Model Serving, Inference Pipelines
- **Evaluation** - Feature Engineering, Experiment Design, Prompt Evaluation, Data Cleaning, Error Analysis

WORK EXPERIENCE

Business Analyst

February 2024 - Present

Visit Grand Junction | Grand Junction, CO

- Built reusable domain corpora for citation-based chatbot and semantic-search prototypes over destination content, reporting archives, and traveler-facing information.
- Analyzed AI search, GEO, and organic-discovery trends to guide LLM-readable content structure, prompt-grounding criteria, and evaluation workflows.
- Launched 66 surveys and screeners to over 1 million consumers, using response data to refine audience hypotheses and testing inputs for segmentation.
- Automated recurring reporting pipelines so destination content and performance data could be reused for retrieval, evaluation, prototyping, and iteration.

AI Data Quality Analyst

November 2023 - January 2024

Randall Reilly | Remote

- Re-platformed R workflows into a one-click Python app, cutting delivery time by 95% for recurring QA and labeling cycles.
- Built decision-tree models that expanded serial-number tracking by 10x and flagged anomalies with 98% precision for review prioritization and exception follow-up.
- Deployed an autoencoder model that improved data quality for downstream analytics, model inputs, and exception handling workflows.

Asset Protection Data Analyst

June 2022 - November 2023

Target | Montrose, CO

- Designed dashboards that boosted theft reporting by 57.6% and increased prevention 180% through clearer pattern monitoring and case prioritization.
- Reduced inventory loss by 24% through analytics-driven investigations, root-cause tracking, and tooling improvements.

EDUCATION

M.S. Data Science, Eastern University | GPA: 4.0/4.0

May 2025

B.S. Data Analytics, Purdue University Global | GPA: 3.6/4.0

May 2023

CERTIFICATIONS

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

PROJECTS

- [Smart Sentence Retriever](#) - Built embeddings-based semantic search with AWS Lambda ranking, relevance tuning, evaluation, and browser demo delivery.
- [Chatbot \(LoRA + RAG\)](#) - Fine-tuned a Mistral chatbot with retrieval and cited answers over destination content for grounded QA and controlled response style.
- [Handwriting Legibility Scoring](#) - Fine-tuned a PyTorch CNN and built a custom evaluation set for legibility scoring, error analysis, and threshold tuning.
- [Shape Classifier Demo](#) - Built a TensorFlow classifier for handwritten shape recognition with browser inference testing, demo delivery, and deployment-ready interaction.