LUCAS BENNETT

DATA SCIENTIST

SUMMARY

As an AI Engineer with a Master's in Artificial Intelligence and hands-on experience in deploying scalable systems, I am proficient in developing and fine-tuning models across NLP, computer vision, and generative AI. My background includes building and maintaining robust ML pipelines using Python, PyTorch, Docker, and AWS, directly aligning with the responsibilities at NeuraTech Labs. I am passionate about turning complex AI research into production-ready solutions that drive real-world impact.

EXPERIENCES

AI Engineer - DeepMetric Labs (Jan 2023 - Present)

Spearheaded the end-to-end deployment of machine learning pipelines using MLflow, Docker, and AWS infrastructure. I designed and implemented a real-time fraud detection system with graph neural networks, which reduced false positives by 34%. My role involved close collaboration with data science and DevOps teams to build and maintain robust training and evaluation workflows, ensuring model performance and scalability in production.

Machine Learning Researcher - NovaCortex AI (Sep 2020 - Dec 2022)

Focused on developing novel models in Natural Language Processing, including a custom transformer-based architecture for sentiment-aware summarization that improved ROUGE scores by 17%. I stayed current with AI research by publishing in top-tier conferences (NeurIPS, ACL) and led internal workshops on model interpretability, aligning with NeuraTech's focus on integrating new methods.

MY PROJECTS

PromptTutor – AI Prompt Engineering Assistant

Developed a generative AI tool using LangChain and OpenAI APIs to help users engineer and refine prompts for text generation. This project involved creating a user-facing application with Streamlit, demonstrating my ability to build production-ready systems that turn complex AI concepts into valuable tools.

FaceGuard – Deepfake Detection Tool

Designed and trained a computer vision model (EfficientNet + LSTM) to detect facial manipulations in videos, achieving 94% accuracy on a benchmark dataset. I focused on model performance and interpretability, implementing Grad-CAM to visualize results, which is crucial for building trust in AI systems.

MedNerPro – Clinical Entity Recognition System

Built a complete NLP pipeline to extract medical entities from unstructured text using BERT-based embeddings and BiLSTM-CRF. This system demonstrates my ability to handle complex data workflows and develop specialized, high-performance models (91.3% F1-score) for specific industry needs.

EDUCATION

M.Sc. in Artificial Intelligence, University of California, Berkeley (2018 - 2020)

GPA: 3.9/4.0

B.Sc. in Computer Science, University of Washington (2014 - 2018)

GPA: 3.8/4.0

CONTACT INFO

2894 Bryant Street, San Francisco, CA, 94110 | +1 (415) 555-2034 | lucas.bennett.ai@gmail.com | linkedin.com/in/lucas-bennett-ai

HARD SKILLS

Python, PyTorch, TensorFlow, scikit-learn • Transformers (HuggingFace), OpenAI API, LangChain • Reinforcement Learning, Computer Vision, NLP • MLops: Docker, MLflow, Airflow, AWS Sagemaker • Git, Linux, REST APIs, SQL

SOFT SKILLS

Strong analytical and problem-solving mindset • Clear technical communicator • Passionate about learning and knowledge sharing • Excellent team collaboration and mentorship experience • Adaptable in fast-paced, agile environments