Mikaela Connell

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DATA SCIENTIST

Data scientist with expertise in Python, SQL, and machine learning with a background in economics and healthcare. Currently pursuing a Master's in Data Science at Harvard University, with graduate level coursework in regression, lasso, random forests, clustering, and survival analysis applied to health and economic datasets. Skilled in bridging technical and clinical perspectives to translate data insights into actionable outcomes.

EDUCATION

Harvard University Extension School - Master of Liberal Arts, Data Science *Expected May 2027*

Relevant Coursework: Elements of Data Science and Statistical Learning with R, Foundations of Data Science and Engineering, Statistical Data Modeling, Fundamentals of Data Science II

- Linear/logistic regression, subset selection, ridge/lasso, bootstrapping, PCA, clustering, classification (LDA, QDA, KNN, Random Forest, SVMs)
- Applied assignments using real world health & economic datasets with R (glmnet, caret, randomForest)
- Developed models for housing price prediction, wiFi localization classification, clustering on World Health Statistics, and cancer outcomes data

Flatiron School - Data Science Certificate April 2025

- Capstone: MacroBTC Insights - Built a Bitcoin prediction dashboard using macroeconomic indicators and ML models (Python, scikit-learn, Streamlit)
- Completed projects in cancer classification (logistic regression, CNNs) & vehicle sales forecasting

New York University - Accelerated Bachelor of Science in Nursing December 2021

Claremont McKenna College - Bachelor of Arts Economics May 2018

EXPERIENCE

Data Analyst | Freelance - LLM Evaluation & Annotation | Data Annotation April 2025 - Present

- Evaluated outputs from large language models (LLMs) to assess factual accuracy, tone, and response quality
- Gained hands on experience with prompt engineering, model behavior analysis, and GenAI tooling

Registered Nurse May 2022 - December 2024

Memorial Sloan Kettering Cancer Center & New York Presbyterian Hospital - New York, NY

- Managed patient care for a diverse population, applying analytical skills to monitor, interpret, and act on patient data to provide optimal care in high-pressure environments
- Utilized electronic health records (EHR) systems to document patient information, ensuring accuracy and facilitating seamless communication between medical teams

Account Manager | Paid Search Analyst June 2018 - September 2019

Metric Theory - New York, NY

- Managed digital marketing strategy for 10+ e-commerce brand accounts, overseeing $1M in Google and Microsoft Ads
- Analyzed performance using Excel and platform tools to generate weekly campaign reports to drive optimization
- Designed and evaluated A/B tests for ad copy, landing pages, and keyword bidding strategies
- Delivered data-driven recommendations to optimize paid media performance and maximize ROI
- Collaborated cross-functionally with creative, analytics, & strategy teams to align performance with business goals

KEY SKILLS

- **Languages/Tools:** Python (pandas, scikit-learn, matplotlib, TensorFlow), R (glmnet, caret, tidyverse), SQL, Tableau, Streamlit, Git
- **Healthcare Data:** EHR workflows (Epic), ICD-10, CPT codes, patient outcomes modeling, WHO/NIH datasets, survival analysis
- **Cloud & Big Data (in progress):** AWS ML Specialty certification (2025), PySpark, Databricks

HEALTHCARE & DATA SCIENCE PROJECTS

Breast Cancer Detection (ML) – Trained logistic regression and CNN models on histopathology data to classify malignant vs. benign tumors; compared feature engineering vs. deep learning performance.

Lung Cancer Survival Prediction – Modeled patient survival outcomes using regression and survival analysis techniques; integrated clinical variables from public datasets.

World Health Statistics Clustering (R) – Applied PCA, K-means, and hierarchical clustering to WHO data; identified country-level health trends.