Liz Rightmire

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EDUCATION

Middlebury College   Middlebury, VT

Bachelor of Arts (Computer Science Major, Mathematics Minor)

GPA: 3.98/4.00

Honors/Awards: Phi Beta Kappa, Summa Cum Laude, Distinction in Major, College Scholar Award

Relevant Coursework: Statistical Sciences, Statistical Learning, Data Science, Machine Learning, Randomized Algorithms for Data Science, Artificial Intelligence, Artificial Neural Networks and Deep Learning, Healthcare in the USA

Activities/Interests: Women in Computer Science Club, Global Health Club, Middlebury EMTs, New Student Orientation Leader

EXPERIENCE

N1 Health   Boston, MA

Associate Data Scientist   June 2025 – present

- Build and optimize XGBoost machine learning models to predict key member-level health care utilization and engagement metrics using clinical, claims, and third-party data sources
- Develop strong relationships with external client stakeholders and deliver data-driven insights using claims, demographic, and related member data

Deloitte Touche Tohmatsu   Remote

Data Engineer Intern   May 2024 – August 2024

- Queried attribute discrepancies, duplicates, and missing entries from Informatica master data management platform to populate a Power BI dashboard describing quality of ETL flow
- Compiled a non-structured database of source data load times, performance alerts, user activities, and resource usage to explain poor system performance; formulated actionable recommendations for database team

CVS Health   Remote

Data Science Intern   May 2023 – August 2023

- Designed, tested, and improved a Keras recurrent neural network model to populate a clickable web field with the customer's predicted next search term, leading to a more efficient customer search experience and an increased search-to-purchase conversion
- Crafted the model's dataset using a SQL query to extract over 1 million search terms from July 2023; cleansed dataset using spell checker and profanity filter
- Selected with 10% of intern class to orally present model outcome to business stakeholders in CVS Health's Manhattan office; received the highest possible performance review score

Dartmouth Hitchcock Medical Center   Lebanon, NH

Health Research Intern   May 2022 – August 2022

- Determined impact of immunosuppressant regimen on the COVID survival rate of organ transplant patients via automated Matplotlib figures, Chi-Squared test, and Fisher's exact test; presented findings to medical team
- Created an Excel dataset of 1000+ patients using SQL scripts to extract and cleanse Epic medical records

PROJECTS

Fetal Health Prediction (blog post)   May 2024

- Developed SVM and boosted random forest models to predict fetal health risk scores from incremental CTG scan data, reaching 89% and 100% accuracy, respectively.

Skin Cancer Classification (blog post)   May 2024

- Designed, implemented, and evaluated convolutional neural network models to classify an unbalanced dataset of 10,000+ skin cancer images into 7 of the most common diagnoses at 75% accuracy.
- Utilized data augmentation, transfer learning, and hyperparameter tuning to reduce false negative rate in malignant diagnosis categories

SKILLS

Languages: Python, SQL, R, Bash, Java, Jinja, Markdown

Tools/Frameworks: AWS, Pandas, Numpy, Matplotlib, Git, Superset, Tableau, PowerBI, Tensorflow/Keras