

STEPHANIE FISSEL

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Portfolio: sfissel.github.io/

GitHub: github.com/sfissel

EDUCATION

University of Virginia

M.S. in Data Science

Charlottesville, VA

Expected Graduation: May 2024

Relevant Coursework: Linear Models, Bayesian Machine Learning, Foundations of Computer Science, Ethics of Big Data, Statistical Learning, Exploratory Text Analysis, Deep Learning, Big Data Systems, Quantum Machine Learning

B.A. in Economics, Minor in Data Science

Aug 2019 – May 2023

Relevant Coursework: Econometrics, Money & Banking, Linear Algebra, Communicating with Data, Career-Based Writing

Bocconi University, Exchange Student

Milan, Italy | Feb – Jun 2022

RELEVANT EXPERIENCE

Embark Financial Consulting, *Data Science Intern*

Dallas, TX | Jun – Aug 2021

- Analyzed client data for 6 practices and 200 consultants within Fivetran-Snowflake database pipeline using SQL, identifying key metrics for optimizing management utilization
- Designed Tableau dashboards visualizing revenue streams, client projects, consultant skills, and deal pipelines, enabling leaders to autonomously drive daily data-informed decisions, increasing operational efficiency
- Demonstrated communication skills by presenting complex back-end dashboards to senior executives, ensuring better understanding of data insights, resulting in quick company-wide deployment
- Strengthened company culture by fostering team collaboration and engagement across 8 nationwide offices through everyday workplace interactions and leadership in extracurricular projects

PROJECT EXPERIENCE

Continuous Glucose Monitoring Capstone

UVA Center for Diabetes Technology | Sept 2023 – Present

- Collaborating in 4-member team over 8-month period to reduce missing data impact in CGM analysis
- Developing advanced models for continuous improvement in accurately predicting imputed CGM values using Python
- Managing 12 CGM data sets with tens of millions of entries each, minimizing data-related blockers
- Ensuring ongoing stakeholder confidence in reliable insights from imputed CGM data

Modeling Injuries in Competitive Runners

Nov – Dec 2023

- Collaborated in 3-member team to create Bayesian model in Python to understand injuries in competitive runners
- Handled imbalanced data set (575 injuries, 42,224 non-injuries) through strategic sampling, enabling balanced analysis
- Utilized Beta-Binomial approach with HMC Sampling and ADVI Approximation to gain insights into injury patterns
- Concluded overexertion as cause of injuries, advising runners to balance pushing limits for peak performance

King County, WA Housing Market Prices

Jul 2023

- Collaborated in 4-member team, analyzing 21,600 King County house sales in R using linear regression to predict prices
- Identified house size attributes, particularly bedrooms, impact pricing trends
- Utilized logistic regression to categorize zip codes as “20 Wealthiest,” achieving 76% accuracy

Celebrity Facial Recognition

Jan 2023

- Collaborated in 3-member team, web scraping and web crawling to compile data set of over 3000 diverse celebrity images for facial recognition technology (FRT) analysis
- Achieved 80% validation accuracy by training and validating models with convolutional neural network (CNN) in Python for precise celebrity identification
- Demonstrated notable 27-point increase in validation accuracy for web scraped model compared to web crawled model
- Implemented transfer learning with PyTorch, optimizing training time and reducing resource requirements

SKILLS & ACTIVITIES

- **Software:** Excel, Python (NumPy, Pandas), R, HTML, CSS, JavaScript, Tableau, Git, SQL, MongoDB
- **Languages:** English, Spanish (public speaking and writing)

LEADERSHIP EXPERIENCE

UVA Graduate Data Science Council, *Student Events & Activities Chair*

Sept 2023 – Present

- Orchestrating engaging social events for 70 M.S. and Ph.D. Data Science students, managing a \$7000 budget
- Communicating weekly with council members to curate diverse event calendar, encouraging cohort connections
- Coordinating exam review sessions, promoting collaborative learning and improving student preparation
- Boosting event attendance and student engagement through regular and strategic advertising efforts