

Dylan Skinner

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EDUCATION

Bachelor of Science: Applied and Computational Mathematics Emphasis

Apr 2024

Brigham Young University

Provo, UT

Concentration: Data Science and Machine Learning

GPA 3.99, Member of BYU Honors Program

SKILLS

Senior Year Skills

- Machine learning, neural networks, hidden Markov models, state-space models, Kalman filter, ARIMA models, sampling (MCMC), mathematical statistics, Bayesian modeling, modeling with differential equations, numerical methods for differential equations, dynamical systems, optimal control

Programming Languages/Software

- Python (PyTorch, NumPy, Pandas, Matplotlib, Scikit-Learn), R, Tableau, C++, SQL, Unix, Git, Bash, Amazon Web Services (Athena, SageMaker, S3)

Relevant Coursework

- Linear and Nonlinear Analysis, Computation and Optimization, Deep Learning, Multivariable Calculus

EXPERIENCE

Data Science Intern

May 2023-Aug 2023

Harbor Health

Austin, TX

- Implemented LLMs for data pairing, resulting in algorithm increasing accuracy by 58%
- Used AWS Athena and SageMaker to create 128 data clusters, improving assignment accuracy by 45%
- Created a time-series model to dynamically group medical appointment data
- Gained in-depth knowledge of medical codes (HCPCS, DDC, GPI, CPT, ICD-10)

Mathematics Research Assistant

April 2021-Present

Brigham Young University, Dr. Mark Hughes

Provo, UT

- Conduct research for 20+ hours a week in knot theory, 4D topology, and machine learning
- Designed and implemented a highly-efficient reinforcement learning algorithm using PPO, resulting in a four-fold increase in learning speeds
- Collaborate with a global network of researchers to develop successful predictive models in 4D topology

R Programming Teaching Assistant

August 2022-December 2022

Brigham Young University

Provo, UT

- Assisted professor for 5+ hours a week in teaching data visualization and statistical programming in R
- Facilitated office hours to help 12+ students solve real-world statistical problems in R

VOLUNTEER EXPERIENCE

Volunteer Representative

April 2021-Present

Fresh Start Ventures

Provo, UT

- Attend and facilitate weekly meetings for groups of 13+ recently released prison inmates
- Coach recently released prison inmates for 3 hours a week on their goals and help them develop plans

Full-time Volunteer Representative

July 2017-July 2019

The Church of Jesus Christ of Latter-day Saints

Reno, NV

- Planned, organized, and conducted trainings and conferences of 160+ missionaries
- Labored 80+ hours a week to serve and teach a variety of people in Nevada by making and following plans
- Contributed to 40+ leadership councils with local leaders

SCHOLARSHIPS AND AWARDS

- Full Tuition Academic Scholarship 2019-2023
- School of Physical and Mathematical Sciences Dean's List: 2019-2022