

Objective

Passionate mathematician and aspiring data scientist equipped with a background in deep and machine learning. Interested in purposeful applied or data science working on problems important to real people, breaking down complex problems to implement creative algorithms.

Education

Brigham Young University - Provo, UT

April 2023

Bachelor of Science in Applied Mathematics, emphasis in Data Science

Minor in Global Women's Studies

Current GPA: 4.0

Honors

Mathematics Department Dean's List (*Fall 2019 - Present*)
Full-Ride Academic Scholarship
Global Women's Studies Honors Society

Courses

Machine Learning Theory, Data Structures, Algorithm Design and Optimization, Abstract Mathematical Analysis, Deep Learning, Probabilistic Reasoning and Control

Skills

Python, SQL, C++, C#, Pytorch, Tensorflow, Tableau

Projects

Pemdance - Spotify Web App

November 2022

- Performs Word2vec embedding technology on lyrics and compares spacial positions of vectorized song features to evaluate simple equations performed on tracks and artists
- Built with Python, HuggingFace Transformers library, Svelte

Tune Tailor - Spotify Web App

October 2021

- Uses Spotify and Google AutoML to deliver personalized song recommendations complementing user's outfit
 - Built with Python, Node, React, Firebase
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Experience

Software Engineer Intern - Microsoft - Redmond, WA

June 2022 - August 2022

- Worked in C# and used KQL as well as AB testing to perform data analysis on customer behavior
- Wrote clean, sustainable, and efficient source code for Visual Studio application
- Implemented key feature in Visual Studio for mac to help easily navigate project solution files using GitHub and Roslyn Reference extensions

Explorer Program Intern - Microsoft - Redmond, WA

June 2021 - August 2021

- Project management for both sides of Visual Studio internal extension
- Fully implemented extension to address user-preventable performance inhibitions

Research Assistant - Natural Language Processing - BYU

January 2022 - Present

- Leverage Language Models using HuggingFace to perform experiments about sentiment analysis and the potential research benefits of inherent bias within large models
- Generate predictions about voter behavior using national public survey response data