

# ETHAN SALINE

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## Education

**Data Science, Statistics Minor**  
*Brigham Young University - Idaho*

April 2023 - December 2026

- GPA: 3.95

## Skills

- |                        |                        |                    |
|------------------------|------------------------|--------------------|
| • Statistical Analysis | • Time Series Analysis | • R, Python, SQL   |
| • Predictive Modeling  | • Data Wrangling       | • Machine Learning |

## Experience

### Math Lab Supervisor - BYU

August 2024 - Present

- Tutored students in 18 different courses, improving comprehension and academic performance
- Supervised a team of peer tutors, ensuring consistent quality of instruction and student support

### Data Science Lab Manager - BYU

April 2025 - Present

- Designed and implemented data collection and analysis systems to support research and student projects
- Provided tutoring and mentorship in machine learning, data science programming, and statistics

## Certificates

- Supervised Learning Algorithms - Stanford University Online
- Unsupervised Learning Algorithms - Stanford University Online
- Advanced Learning Models - Stanford University Online
- Machine Learning Specialization - Stanford University Online

## Technical Projects

### Chest X-Ray Diagnosis ML

- Processed 7500 chest X-rays to train a convolutional neural network to diagnose illness with 80% accuracy

### Cardiac Arrest Mortality Probability

- Deployed Logistic Regression to find meaningful insights into causes and prevention of Cardiac Arrest using hospital records from 300 patients
- Created an interpretation using a two-lines model with 3d graphability

### Covid-19 Transcriptomics

- Employed clinical research data to analyze gene expression of Covid infected vs healthy samples
- Created a statistically significant model to identify more than 2000 genes affected by Covid and how affected

### Consumer Loan Decomposition/Forecast

- Analyzed FRED Consumer Loan time series data and decomposed it to basic elements of Trend, Seasonality and Remainder used to built a forecast 2 years forward with a 95% confidence interval

### Data Wrangling: ICE Data Analysis

- Analyzed gathered Official ICE data and designed visuals to demonstrate story of policy change