

ETHAN SALINE

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Education

Data Science, Statistics Minor
Brigham Young University - Idaho

April 2023 - December 2026

- GPA: 3.95
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Skills

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