GABRIELLE WALD

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I am a Data Scientist interested in surfacing insights from data. I have experience creating accessible visualizations and predictive models for a wide range of applications. I'm passionate about the scientific method and the use of technology to generate positive impact, improve services, and uncover possible solutions.

EXPERIENCE

Data Science Fellow, Springboard School of Data **Aug 2020 – Present**

- Created predictive model to understand students' performance in CA K-12 public schools
- Formulated and tested hypotheses to understand demographic factors in performance
- Found and transformed several files to construct unique datasets
- Used machine learning algorithms in classification and regression models

Data Science Fellow, DS4A Empowerment Program, Correlation One **Oct 2020 – Feb 2021**

Merit-based fellowship with 5% acceptance rate led by Harvard Prof. Natesh Pillai

- Co-created capstone project to understand financial impact in K-12 public education in CA
- Run regression models to determine variables of impact and identify confounding factors
- Performed t-test and chi-square analysis for hypothesis testing
- Conducted exploratory data analysis and created meaningful plots to identify patterns

Research Data Analyst, SELF-lab, UC Davis **May 2019 – Jul 2020**

- Ran descriptives and constructed visualization for research in collaboration with the World Bank
- Organized and cleaned data files with over 63k data points in R/Excel for research
- Collaborated with researchers and participated in planning meetings

Research Assistant, Oakes Lab, Center for Mind and Brain **Aug 2018 – Jul 2019**

- Ran eye-tracking software SMI, collected and coded infant behavior data
- Screened participants and followed IRB guidelines for research projects
- Trained new RAs on lab procedures and collaborated with the research team

Research Assistant, Rivera Lab, Center for Mind and Brain **Aug 2017 – Oct 2018**

- Carried out data collection for behavioral studies
- Administered eye-tracking to study subjects
- Collaborated with P.I., PhD students, and fellow researchers

Vice President of Scholarship, PTK Honor Society International **Jan 2015 – Jan 2016**

- Partnered with organizations for collaboration on campus projects
- Led weekly meetings with society members to address action items
- Organized and presented induction ceremony to welcome new inductees

EDUCATION

Springboard School of Data, Data Science **2020 – 2021**

- 550+ hours of hands-on coursework, with 1:1 industry expert mentorship, and completion of 2 in-depth capstone projects
- Developed skills in Python, SQL, data wrangling, data visualization, hypothesis testing, and machine learning

University of California Davis, BS Cognitive Science, 3.65 GPA **2017 – 2020**

- Computer Science and Neuroscience emphasis
- Relevant coursework: Applied Statistics, Biostatistics, Statistical Analysis in R, Linear Algebra, Research Methods, Data Structures and Algorithms in Python, Object Oriented Programming in Python

PROJECTS

Passing the Standards Projection **May 2021**

Created predictive model to project the percentage of K-12 students passing standard tests in California public schools. This project was an in-depth investigation of factors possibly effecting school performance.

- Modeled training data with several regression algorithms: Linear Regression, Logistic Regression, Decision Tree, Random Forest, Lasso and PCA
- Created unique dataset with test scores, financial investment in education, and several demographics regarding students and their families

SKILLS

- Programming Language: python (numpy, pandas, matplotlib, sklearn, statsmodel, seaborn, jupyter notebook)
- Descriptive and Inferential Statistics: p-value, test for significance (z-test, t-test, chi-squared, ANOVA)
- Experimental Design: A/B testing, sample size, hypothesis testing, confidence level
- Predictive Modeling: linear/ logistic regression, classification, clustering, decision trees, random forest
- Data Science Methods: mining, wrangling, cleaning, analysis, visualization, storytelling
- Version Control: Git, Github
- Databases: SQL