Sarah He

(626) 233-1717 | sarahhe725@gmail.com | sarahhe05.github.io/sarah-he/

EDUCATION

University of California, San Diego

Bachelor of Science in Data Science

Expected Graduation: June 2026

Provost Honors, GPA: 3.89/4.00

EXPERIENCE

Data Science Intern

August 2024 - February 2025

Jersey City, NJ

A Round Entertainment

- Developed and optimized predictive models (CatBoost, LightGBM and Ensemble methods) to estimate concert revenue, capturing over 90% of the patterns in the data and uncovering key factors influencing revenue generation
- Developed interactive Tableau dashboards that allowed non-technical stakeholders to explore data by artist and time period, effectively visualizing key metrics and trends
- Scraped and parsed HTML data using the Beautiful Soup library to build robust datasets with over 705,000 rows from online sources, enabling in-depth analysis of concert industry trends

Data Visualization Staff, Photographer

October 2023 - Present

The UCSD Guardian

La Jolla, CA

- Collected and interpreted datasets to produce informative and interactive graphics
- Covered diverse content to produce photographs that complemented and enriched articles

Human Resources Intern

August 2024 - October 2024

A Round Entertainment

Jersey City, NJ

- · Automated attendance tracking by setting up new employee attendance system in Excel, reducing manual effort and increasing efficiency in performance analysis
- Facilitated effective communication between employees and management

Webmaster

January 2024 - November 2024

La Jolla, CA

The UCSD Guardian

- Regularly updated The Guardian website with fresh content to promote online reach and audience engagement
- Contributed to redesign efforts for The Guardian website, enhancing user experience and modernizing site functionality

Starry Sticker Shop

June 2020 – September 2023

 $Co ext{-}Founder$

Temple City. CA

- Managed product design, customer service, and financial planning, growing the Etsy business to 270+ global orders
- · Analyzed and visualized sales patterns and customer sentiment for actionable insights using Python and Tableau

Projects

Major Power Outage Analysis | Python, HTML, CSS

December 2024

- · Conducted in-depth analysis of power outage data to identify regional and infrastructural factors influencing outage severity
- Applied feature engineering and hyperparameter tuning to develop a Logistic Regression model that forecasts severe power outages with 85% accuracy
- Conducted permutation testing to assess missingness dependency, model fairness, and analyze key trends in the dataset

EcoMenu | Python, Node.js, Tableau, HTML, CSS, JavaScript

August 2024

- Sourced, compiled, and cleaned datasets on the carbon footprint of over 350 food ingredients and 2100 recipes
- Developed web application enabling users to select ingredients and receive low-carbon recipe recommendations
- Presented visualizations to showcase insights from the recipe and ingredient data
- Boost Hacks II: Most Creative Hack, CirFin CREATE: Civic Achievement Award

San Diego Crime Analysis | Python, Tableau

July 2024

- Analyzed 4 years of crime data in San Diego, identifying trends and correlations for effective data presentation
- · Built interactive dashboard with Tableau to visualize statistics and trends of various crime types

Dino Diet | Python, HTML, CSS, Flask, JavaScript

April 2024

- Implemented XGBoost classifier on dinosaur diets with 93% accuracy
- Built Flask application that allows users to select dinosaur features and view corresponding diet predictions
- Developed frontend web page design with data visualizations to showcase statistics

SKILL SET

Technical: Python, Java, SQL, Tableau, R, HTML/CSS, JavaScript, Excel, LaTeX, Git, Jupyter Notebook, Figma, Flask Production: Adobe Lightroom, Adobe Photoshop, CapCut, PowerPoint