

# Sarah He

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## EDUCATION

### University of California, San Diego

*Bachelor of Science in Data Science*

*Bachelor of Science in Cognitive Science Spec. Machine Learning and Neural Computation*

Expected Graduation: June 2026

*Provost Honors, GPA: 3.93/4.00*

## PROJECTS

### EcoMenu | *Python, Tableau, Flask, HTML, CSS, JavaScript*

August 2024

- Sourced, compiled, and cleaned datasets on the carbon footprint of over 350 food ingredients and 2100 recipes
- Developed Flask application enabling users to select ingredients and receive low-carbon recipe recommendations
- Presented visualizations to showcase insights from the recipe and ingredient data

### 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

### Starry Sticker Shop Analysis | *Python, Tableau*

July 2024

- Analyzed sales patterns and customer sentiment for actionable insights for business growth
- Visualized shop performance from 4 years of small business data using both Python and Tableau

### 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

### Pasta Detector | *TensorFlow, Flask, Python, HTML, CSS, JavaScript*

February 2024

- Developed image classification web application to distinguish between different pasta types
- Implemented frontend web page design and development

## EXPERIENCE

### The Guardian Online

January 2024 - Present

*Webmaster*

*La Jolla, CA*

- Regularly updated The Guardian website with fresh content to enhance online reach and audience engagement
- Maintained 80+ staff profiles and optimized links on the site

### The Guardian

October 2023 - Present

*Data Visualization Staff, Photographer*

*La Jolla, CA*

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

### Kode With Klossy

July 2021, July 2022

*Scholar*

*Los Angeles, CA*

- Learned fundamentals of JavaScript, HTML, CSS, and SQL for Web Development and Data Science
- Worked in a team of 3 to program an informative and interactive website regarding ocean protection

## CERTIFICATION

### Supervised Machine Learning: Regression and Classification

March 2024

*DeepLearning.AI, Stanford Online*

## LEADERSHIP

### Starry Sticker Shop

June 2020 – September 2023

*Co-Founder*

*Temple City, CA*

- Grew Etsy business to 270+ global orders by leveraging social media marketing
- Managed all aspects of product design, customer service, and financial planning

### Temple City Infinity Math Circle

March 2020 – August 2023

*Co-Founder, Head of Planning Committee, Instructor*

*Temple City, CA*

- Oversee summer program offering 200+ elementary and middle school students weekly math lessons
- Lead weekly committee meetings to develop class materials for 24 areas of study

## SKILL SET

**Technical Skills:** Python, Java, SQL, Tableau, HTML/CSS, JavaScript, Excel, LaTeX, Git, Jupyter Notebook, Figma, Flask

**Production:** Adobe Lightroom, Adobe Photoshop, CapCut