QIRUI ZHENG

q7zheng@ucsd.edu | (510) 935-0354 | https://qz07.github.io/

SUMMARY

Passionate about getting experience in different types of jobs and explore the connection of the job to Data Science. Aspiring to consolidate my skills in Data Science and to support others with such skills.

EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO, La Jolla, California
Bachelor of Science in Data Science
Bachelor of Science in Cognitive Science with Specialization in Machine Learning and Neural Computation
Minor in Business and Economics   Expected June 2025
- GPA: 3.85
- Course taken: Data Structure Algorithms for Data Science, Statistical Methods, Practice of Data Science through in-depth Pandas

CHABOT COLLEGE, Hayward, California
Concurrent Enrollment (With KIPP King Collegiate High School)   August 2022
- Course taken: Linear Algebra, Structured Programming in C++, Statistics

EXPERIENCE

Research Intern at NEATLabs   **February 2024 – PRESENT**
Neural Engineering and Translation Labs, UC San Diego Health
- Performed different types of parametric test on EEG data for patients with depression.
- Utilized Matlab to generate pre and post test results.

Pattern Analysis on EEG Data for Enhanced Depression Diagnosis   **August 2023– PRESENT**
Researcher under Faculty Mentorship Program
- Working under Professor Justin Eldridge for a Machine Learning approach to quantify depression scores.
- Cleaned through the EEG dataset with techniques such as PCA and ICA to identify potential features related to the classification of depression.
- Potentially working with unsupervised ML model to find cluster within the given data, after feature extraction.

Data Science Projects, San Diego, California   **September 2022 – March 2023**
Project
- Utilized OpenCV Library to trace contours of the image and detect the car license plate if it exits in the image (link)
- Later used Neural Network: YoloV5 to train the prediction of bounding boxes.
- Completed Exploratory Data Analysis on the given raw data of Earth Surface Temperature from Kaggle
- Iterated through the K-Means classification, regression is done on the two different groups classified (link)
- Utilized Tableau for data visualization in presentation of the overall project and different aspects of Pandas Python library to perform data analysis.

First Robotics Competition – Robotics Team, San Lorenzo, California   **August 2019 – June 2022**
Team Mentor
- Led a team of 15 people on the design, construction, and program of the robot from scratch.
- Competed in both First Tech Challenge, and the First Robotics Challenge
- Read through the WPILib Java libraries and documentations.
- Organized and conducted meetings to meet the competition deadlines.
- Communicated important events with all team members.
- Organized and Bill of Materials with the budget for the given year.

SKILLS & ACTIVITIES

- Familiarity in: Java, Python, C++ , R, Pytorch, Scikit-Learn, Matlab
- First Robotics Challenge: 2022 Judges' Award San Francisco Regional

- Language: Native speaker in Mandarin and limited proficiency in Cantonese
- College Board: AP Scholar With Distinction
- Experience in traditional dancing for seven years