Yuan Gao

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO 2018.9-PRESENT

- BACHELOR OF SCIENCE IN DATA SCIENCE
- MAJOR GPA:4.0/4.0

UNIVERSITY OF CALIFORNIA, BERKELEY 2017.6-2017.8

- GPA:3.37/4.0

SKILLS¹

TECH-SKILLS

- · PROGRAMMING LANGUAGES: PYTHON, JAVA, C/C++, SHELL, HTML/CSS, PHP, MATLAB
- · DATABASE LANGUAGES: MYSQL
- · MODULES: NUMPY, MATPLOTLIB, SCIKIT-LEARN, PANDAS, BEAUTIFULSOUP, SELENIUM, TENSORFLOW
- · OPERATING SYSTEMS: UNIX/LINUX
- · SOFTWARES: TABLEAU, GOOGLESHEET, MICROSOFT OFFICE
- · WEB TECHNOLOGY: JAVA SERVLET PAGES(JSP)

SOFT-SKILLS

- · GOOD AT QUICK LEARNING, KEEPING HUNGRY FOR NEW TECHNOLOGIES, WRITING AND COMMUNICATING
- · COMFORTABLE WITH WORKING IN A TEAM AND SPEAKING IN FRONT OF CROWD

PROJECTS²

DATA WRANGLING&CLEANING ON MASSIVE REAL WORLD DATA 2019.3

UC San Diego Data&GIS Lab's Data Wrangling Competition

- · Cleaned a real-world messy weather dataset with over 10 million rows of data and with 20% missing/unformatted data
- · Filled missing value using Scikit-learn, Pandas, and Matplotlib by implementing my own cleaner class and functions
- · Utilized Supervised Learning algorithms (Linear regression & Support Vector Regression) to predict precipitation
- · Minimized my code complexity by choosing different data structures
- · Won this competition as the only winner

STATISTICALLY TESTING THE EXISTENCE OF SOCIAL MEDIA BOTS 2019.1

UC San Diego COGS9: Introduction to data science.

- · Analyzed the posts of a celebrity suspected to use bots on internet to add popularity
- · Web-scrapped more than 5000 posts from Weibo, the biggest social media with the strongest anti-scraping technology
- · Employed A/B test to check whether the test statistic is statistically significant
- · Utilized NLP packages in Python(NLTK and Jieba) to find evidence for the existence of social media bots

VISUALIZING FACEBOOK INFORMATION OF HDSI 2018.12

UC San Diego Halicioglu Data Science Institute Student Shoutout

- · Web-scrapped all posts (more than a year) from HDSI Facebook account
- · Made a world cloud out of thousands of words to show HDSI's working emphasis
- · Posted by HDSI on its official website3
- · The visualized world-cloud is used by HDSI as a pattern on the department's shirt

DATA ANALYSIS ON PUBG PLAYERS THROUGH WEB-SCRAPING 2018.10

- Developed an algorithm to web-scrape over 2000 game data of a twitch streamer 'Shroud' from PUBG website
- Makes analysis and visualization using Pandas and Matplotlib on the scraped file with over 15 columns and 1600 rows
- Summarized all his gameplay and found pattern indicating the change in his stream content

OBJECT DETECTION USING ML ALGORITHM 2018.7.20-2018.7.22

2018 HACK.INIT HACKATHON, Shanghai

- · Modified and applied an existing Tensorflow Machine-learning algorithm for detecting human's mouth (Object-detection API)
- · Implemented this feature to drinking fountain which helped it accurately eject water to human's mouth
- Scraped and trained over 400 pictures

HONORS

WINNER OF UCSD DATA WRANGLING CONTEST 2019.3

UC San Diego Data&GIS Lab

UCSD PROVOST HONOR 2019.1

UC San Diego Eleanor Roosevelt college

EXPERIENCE

WEB DEVELOPMENT INTERNSHIP 2017.10-2018.1

Nanchang University, China

- Followed graduate IT students to develop a web application for a local hospital
- Implemented Java and Mysql code for JSP technology (JDBC involved)
- · Learned basic syntax and application of HTML/CSS

¹ **Relative Coursework:** Data Structure and Algorithm in Python, Java, C/C++. Data fetching/ cleaning/ analysis/ modeling. Multivariable Calculus and Linear algebra. Probability and Statistics.

² More detailed description: On my Github www.github.com/Rabona17

³ HDSI Official Website: https://ucsdnews.ucsd.edu/pressrelease/data_science_freshman_makes_his_first_cloud