Yuan Gao

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO 2018.9-PRESENT

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

SKILLS

TECH-SKILLS

- · PROGRAMMING LANGUAGES: PYTHON, JAVA, C/C++, SHELL, MATLAB, R, JAVASCRIPT
- MACHINE LEARNING: LINEAR/POLYNOMIAL/MULTIVARIABLE REGRESSION, LOGISTIC REGRESSION, K-MEANS, KNN, SVM, SOFTMAX CLASSIFIER, NEURAL NETWORK
- DEEP LEARNING: DEEP NEURAL NETWORK, CNN, YOLO, RESNET, LSTM, RNN
- · DATABASE LANGUAGES: MYSQL
- · MODULES: NUMPY, MATPLOTLIB, KERAS, SCIKIT-LEARN, PANDAS, BEAUTIFULSOUP, TENSORFLOW
- OPERATING SYSTEMS: UNIX/LINUX
- · WEB TECHNOLOGY: SPRING, SPRINGMVC

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

PROJECTS¹

MACHINE LEARNING AND DEEP LEARNING MODELS FROM SCRATCH 2019.6-PRESENT

Projects for deeplearning.ai

- · Implemented a whole model (including initialization, regularization, BP, and different optimizers) for Deep Neural Network
- · Optimizers that built from scratch include mini-batch GD, SGD, RMSprop, Adam
- Implemented building blocks for Convolutional Neural Network including padding, pooling layers, colvolution layers, FC
 layers, BP for pooling layers and BP for Conv layers using Numpy only, and Resnet with skipping step of 3 using Keras

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 (Multivariate 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 a strong 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 news website²
- · The visualized world-cloud is used by HDSI as a pattern on the department's shirt

CERTIFICATES

HIGH PERFORMANCE COMPUTING CERTIFICATE

San Diego Supercomputer Center

Attended a 10 week training session on introductory parallel computing and GPU computing provided by SDSC

MACHINE LEARNING CERTIFICATE

Coursera.org

Finished the Machine learning course taught by Andrew Ng

HONORS

WINNER OF UCSD DATA WRANGLING CONTEST 2019.3

UC San Diego Data&GIS Lab

UCSD PROVOST HONOR 2019.1-PRESENT

UC San Diego Eleanor Roosevelt college

EXPERIENCE

SOFTWARE ENGINEER INTERN 2019.6-PRESENT

China Telecom Cooperation Limited

- · Debugging and testing features of a city-level medicine purchasing system written in Spring + SpringMVC + Mybatis
- Implementing features of a role based drug purchasing system including adding/querying/deleting specific medicine information for medicine producers and adding/deleting/editing carts for hospitals
- · Getting familiarity of SVN and Gradle

¹ All of the source code are on my Github www.github.com/Rabona17

² HDSI Official Website: https://ucsdnews.ucsd.edu/pressrelease/data_science_freshman_makes_his_first_cloud