NAE-RONG CHANG

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EDUCATION

Pennsylvania State University - University Park   **Expected Graduation: August 2020**
Bachelor of Science in Computational Data Science   **Cumulative GPA: 3.30 / 4.00**

PUBLICATION

Mao, J., Harris, K., Chang, N.R., Pennell, C., & Yiming, R. (2020, May 12). Train and Deploy an Image Classifier for Disaster Response. Retrieved from https://arxiv.org/abs/2005.05495

WORK EXPERIENCE

Data Science and Quality Assurance Co-op   Conshohocken, PA   2019-06 to 2019-12
Oracle Corporation

- Designed, developed and deployed machine learning models to predict and inform clients of potential schedule delays in their construction projects.
- Created automation scripts in Jenkins to validate data quality during the ETL process.
- Assisted the development of Oracle Cloud Infrastructure by optimizing script compatibility between the local environment and cloud environment.

Research Assistant   State College, PA   2018-09 to 2019-05
Intelligent Vehicles and Systems Group

- Analyzed powered wheelchair joystick characteristics to develop adapting driving assistance for people with a neurological disorder.
- Generated and collected parse data sets for future implementation on path prediction system for powered wheelchair.

IT department ATM team Intern   Hong Kong   2018-06 to 2018-08
Shanghai Commercial Bank

- Conducted System Integration Testing and User Acceptance Testing in a Fin-tech project (Fast Payment System) initiated by the Hong Kong Monetary Authority to support instant payments among banks.
- Developed test case scenarios regarding the Teller system, ATM system, Internet Banking System and Electronic Clearing System.

LEADERSHIP

Public Relation   State College, PA   2016-10 to 2018-04
Taiwanese American Student Association

- Secured $5000+ in sponsorship funding by developing marketing contracts, tailored to each sponsor.
- Represented as the lead spokesperson between TASA and its 200+ active members, sponsors, and the Taiwan Department of Student Affairs.

PROJECTS

Image Classifier for Disaster Response - Senior Capstone

- Trained finetuning Torchvision models in PyTorch (ResNet / AlexNet / DenseNet / MobileNet) to classify disaster-related imagery and achieved 80% model accuracy.
- Collaborated with MIT Lincoln Laboratory, a research center chartered to apply advanced technology to problems of national security, to create a summer class for high school students.
- Increased model efficiency by integrating model pipelines, and data storage to communicate with the AWS cloud environment.

Stock Analysis Prediction

- Constructed stock market prediction web-application by twitter sentiment analysis and stock resistant and support method.
- Visualized stock market price by applying the Time-series package, and illustrated data through Shiny App in R

SKILLS

Python, R, MySQL, JavaScript, HTML, Linux, Agile Development, Git, Machine Learning