Ruiwei Zhang

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EDUCATION

Syracuse University, Syracuse, NY   May 2021
Applied Data Science, Master
Core courses: Data structure& Algorithm, Operating System, Bayes Analysis
Shanghai Jiao Tong University, Shanghai, China   August 2019
Electric and Computer Engineering, Bachelor
Core courses: Intro to Data Science, Cloud Management, Intro to Database

INTERNSHIP HISTORY

Ymatou Network Technology, Shanghai, China   *Data Analyst*, Feb 2019 – May 2019
- Trained an image classifier model based on MXNet in Python to separate the product images into more than 20 categories
- Improved the image scoring system by writing a filter to screen the images with low information entropy and high resolution
- Collaborated with 3 people to fulfill the function of image system
- Collected daily image data from MongoDB for further analysis

Galaxy Futures, Shanghai, China   *Data Analyst,* Dec 2016 – Feb 2017
- Classified data through the K-mean algorithm to benchmark the funds into 4 categories
- Evaluated the performance of the fund based on its daily balance sheet, profit and loss statement, cash flow statement and changes in financial position to adjust the predicted fund on the fund
- Collected financial data for more than 40 funds during past 1 year for further classification and evaluation

COURSE PROJECTS

Multiple tenancy support of Business Process Management Platform   *Member*, Jul 2018
- Wrote a front-end website within React structure to demonstrate our back-end engine
- Built a wrapper around the current Activiti BPM engine to extend the original APIs functions to support multiple tenants
- Represented our final engine using the website to visitors and the faculty in design expo

Tree number and distribution estimation given fruit distribution   *Member*, Jul 2019
- Constructed a linear regression model and a K-mean algorithm to estimate the total tree numbers and the most possible location of trees given the fruit number
- Built a Bayesian network to determine the factors to the tree estimation
- Applied Bayesian analysis and hypothesis testing to estimate the parameters in the prior functions

SKILLS

- Programming language: Python3, C++/C, R, Julia, bash script, Matlab
- Toolkits/Frameworks: Linux, Git, MXNet, NumPy, pandas, MongoDB, LaTeX, React