Muchen Zhou

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EDUCATION

CARNEGIE MELLON UNIVERSITY
PITTSBURGH, PA
SEPT 2013 - MAY 2017
-B.Sc in Mathematical Science and Statistics
-Minor in Machine Learning

SKILLS

Programming Languages:
•Python, C, Java
Software and Packages:
•R, NumPy, Hadoop, Excel, MySQL, MATLAB
Systems:
•Unix, Git, AWS
Editing Tools:
•LaTeX, InDesign, Word
Languages:
•Chinese, English

COURSEWORK

•Machine Learning
•Advanced Data Analysis
•Machine Learning For Text Mining
•Natural Language Processing
•Modern Regression
•Hierarchical Models
•Discrete Mathematics
•Operations Research
•Computer System
•Imperative Computation

EXPERIENCE

DATA SCIENTIST INTERN   MAY 2016 - JAN 2017
EEME, LLC | PITTSBURGH, PA
Designed and achieved an accurate predictive model for residential electricity usage of different time intervals to support the electricity trading system. Utilized various models and algorithms of time-series and machine learning when building the model. Constructed an analysis module on R and transferred the work from R to Python to fit the company's platform.

UNDERGRADUATE RESEARCHER   JAN - MAY 2016
CERLAB | PITTSBURGH, PA
Collaborated with a team to design the inventory management system for a shipping company using augmented reality(AR) system and QR code. Built a software using AR system to track movements of different objects and visualize the movements.

PROJECTS

SARCASM MACHINE   SEPT - DEC 2016
Collaborated with a group of three to explore how deep learning can be used for automated sarcasm detection from text. Cleaned and pre-processed the raw text datasets and built the deep networks from scratch to compare the F-Scores with other classifiers. Discovered different networks would result differently based on the length of input text.

CALCULUS HELPER   MAY 2014, JULY 2015
Created a software that recognized basic handwritten symbols and numbers quickly with a high recognition rate and calculated complex differentiation and simple integration problems based on the inputs. Applied k-NN algorithm for writing recognition and recursion for calculus calculation.

Q&A MACHINE   SEPT - DEC 2016
Worked with a group of four to build a software in python using multiple NLP packages and techniques to generate different types of questions and find the appropriate answers based on a piece of text.

ACTIVITIES

JAPANESE STUDENTS ASSOCIATION   2015 - 2016
Organized cultural events and activities for JSA as the culture chair.

PHAUNGDAWOO SCHOOL   SUMMER 2014
Worked and taught with a group of volunteer teachers in a monastic school in Myanmar and initiated the Chinese program in the school.

FRINGE   2013 - 2015
Attended CMU's buggy competition as a pusher and won 3rd place.