Chen Zheng

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Education

Binghamton University **08/2015-12/2017**
Degree: Master Major: Computer Science Overall GPA: 3.6/4.0
Advisor: Zhongfei(Mark) Zhang
Research: *NLP (Nature Language Processing), Machine Learning, Deep Learning (CNN, RNN, LSTM)*

Tianjin Polytechnic University **09/2010-06/2014**
Degree: Bachelor Major: Software Engineering Overall GPA: 3.5/4.0
Advisor: Weidong Min
Research: *Struts2, Hibernate, Spring3, Machine Learning*

Publication

[Zheng, Zhai, and Zhang] Zheng, C., Zhai, S., and Zhang, Z. 2017. A Deep Learning Approach for Expert Identification in Question Answering Communities. arXiv preprint arXiv: 1711.05350.

Research Experience

Creating images with Deep Convolutional Generative Adversarial Networks(DCGAN) **07/2017-11/2017**
- Implementing a Deep Convolutional Generative Adversarial Networks to create an ocean of images
- Dataset: CIFAR-10 and ImageNet datasets.
- The image which I generated based on DCGAN own high-quality pixels.

A Deep Learning Approach for Expert Identification in Question Answering Communities **08/2016-04/2017**
- Building up a language model to implement expert identification in QA communities.
- Natural Language Processing technologies, such as Word2vec, Glove, DeepWalk, and some Deep Learning technologies, such as Convolutional neural network, Recurrent neural network
- Optimization: Dropout, Batch Normaliztion
- Dataset: Stack Overflow community, Zhihu question-answering community
- The top-1 test accuracy outperforms all of the baselines.
- Paper published in arXiv: 1711.05350.

LSTM for sales prediction in Time series **03/2016-06/2016**
- Using Deep Learning model, Long short-term memory, to train a deep learning model which can implement the sales prediction for each month.
- Based on this model, I can find out the trend of predictions and use advanced data mining method to improve the sales prediction.

Convolutional Neural Networks for Sentiment Analysis **10/2015-12/2015**
- Designing Deep Learning model, Convolution Neural Network, to train a multiple-layer language network and detect the sentiment analysis based on sentences.
- Each word in the sentence reflect with high dimensional vector using Word2Vec technology.
- Dataset: IMDB dataset

Design and Development of Pet Shop Trade System Based on Java Web **02/2014-04/2014**
- Front-end Design and implement with HTML/CSS, JavaScript, JQuery.
- Backend Design and implementation with Struts2, Hibernate, Spring3.
- Relational Database: MySQL, NoSql Databese: Redis
- Full-Stack design and implementation of recommendation system(Mahout) and search engine(Lucene).
- Introduced open platform, which can log into the account via Facebook and Tencent account.

Development of Shopping Website Application Based on Java Web **06/2013-08/2013**
- Designed and built Amazon-like online shopping service based on Java Web.
- Front-end Design and implement with HTML/CSS, JavaScript, JQuery.
- Backend Design and implementation with Struts2, Hibernate.
- Database: MySQL.
- Full-Stack design and implementation of search engine(Lucene).

Special Skills

- Programming language: Java, Python, SQL
- Deep learning Framework: TensorFlow, Pytorch
- Web development: Java Web (Struts2+Hibernate+Spring3+HTML+JQuery +Tomcat).
- Machine Learning: NLP Algorithms and Machine Learning Algorithms.
- Database: MySQL, Oracle (include PL/SQL).