Lu Chen

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Current Status: graduate in 2020

EDUCATION

Tsinghua University - Master of Engineering Computer Science and Technology Institute for Interdisciplinary Information Science   2017.09 - 2020.07

 - GPA : 3.32 / 4.0

 - Scholastic Award: Baidu Social Work Scholarship in Tsinghua University, 2018

 - Relevant Course: Statistical Learning Theory and Applications, Probabilistic Graphical Models, Computational Linguistics, Methods of Optimization, Knowledge Engineering, Big Data Analytics

Beijing University of Posts and Telecommunications - Bachelor of Engineering Computer Science and Technology Department of Computer Science   2013.11 - 2017.07

 - Grade : 93 / 100 , Rank 2 / 302

 - Scholastic Award: National Scholarship (2015, 2016), First-Class Scholarship of BUPT(2014), Outstanding Graduate(2017)

 - Relevant Course: Operating System, Network of Computer, Database, Data Structure, Algorithm Design, Probability Theory

PROJECT EXPERIENCE

Relation Extraction from Annoucement   2017.04 - 2018.04

Based on distant supervision(DS), we extract 4 kinds of relations, i.e. director, stockholder, supervisor, representative from company announcements. To generate large training dataset quickly, label data with DS and get large data with noisy labels. Thus, de-noisy data filtered by labeling functions(LF) are fed into Att-BiLSTM model. Then we get probability of certain relation in the sentence. In test data with gold labels, AUC of multi-relation is 83%.

Finance Information Platform   2017.01 - 2017.05

I built a platform which is a combination of information condition query and data visualization to help users have a better understanding of certain company. The platform was built based on SpringMVC and Mybatis, combined with Neo4j and D3.js to display relations between companies. Besides, I completed the function of generating report of company, which includes basic information, main webpage's screenshot, its keywords and abstract generated by TextRank.

RESEARCH EXPERIENCE

DIAG-NRE: A Deep Pattern Diagnosis Framework for Distant Supervision Neural Relation Extraction preprint

On relation extraction (RE) tasks, although distant supervision (DS) can automatically generate training labels for RE, the effectiveness of DS highly depends on datasets and relation types, and sometimes it may introduce large labeling noises. We propose a deep pattern diagnosis framework, DIAG-NRE, that aims to diagnose and improve neural relation extraction (NRE) models trained on DS-generated data. We observe different noise behaviors and obtain significant F1 improvements on all relation types suffering from large labeling noises.

SKILLS

- **Programming language:** Python, C++, Java, Shell, SQL, JavaScript
- **Model:** CNN, RNN, AttBiLSTM, word2vec, NER, CRF
- **Toolkit:** NumPy, Pandas, Scikit-Learn, PyTorch, XGBoost
- **Course project** click fraud detection(Python), making-verse(Python), air-conditioning system(Qt/C++)
- **Language:** CET-6(536)

OTHER EXPERIENCE

Minister of the student union, IIIS, Tsinghua   2017.09 - 2018.07

Team leader of SSLP, Tsinghua   2017.07 - 2017.07

Track and field team, BUPT   2015.09 - 2016.12

Interest: Jogging, Piano, Yoga