Jiaying Lu

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Skill & Interests

Research

Natural Language Processing, Data Mining, Machine Learning, Deep Learning

Technical

Programing Languages: Python, C&C++, Java, Linux Shell, Hadoop, Spark, HTML

Machine Learning Tools: Pytorch, Tensorflow, NLTK, Gensim, Keras, scikit-learn

Education

Beijing University of Posts and Telecommunications (BUPT), Beijing, China

Master of Engineering in Electronics and Communication Engineering *Sep 2014 -- Mar 2017*

Research area: Natural Language Processing, Text Mining, Recommend System.

Aalto University, Helsinki, Finland

Exchange student of Computer Science *Sep 2015 – Dec 2015*

Main courses: Machine Learning, Neural Networks and Deep Learning, etc.

Beijing University of Posts and Telecommunications (BUPT), Beijing, China

Bachelor of Engineering in Information Engineering *Sep 2010 -- Jun 2014*

Main courses: Linear Algebra, Probability and Statistics, Information Theory, Data Structure, etc.

Professional Experience

Xiaomi, Search Engine Group, Beijing, China

NLP Engineer *Jan 2018 -- Now*

- Responsible for **word segmentation** and **part-of-speech tagging** modules of search engine.
- Research and development on innovative deep learning technologies to improve AI applications performance, such as user intent recognition, conversational search, etc.

Baidu, Search Advertising Group, Beijing, China

NLP Engineer *Apr 2017 -- Dec 2017*

NLP Engineer Intern *Oct 2016 -- Mar 2017*

- Participated in core projects with empowering numerous business partners and impacts of millions of incremental search engine Ads revenue.
- Selected projects including applying **part-of-speech tagging**, **term weighting** and other NLP toolkits for programmatic creative of Ad content, and developing a state of art neural network for **short text relevance** with C++, Python.

Baidu, Online Food Delivery Group, Beijing, China

Machine Learning Engineer Intern *Mar 2016 -- Jun 2016*

- Participated in a business intelligence project which distributed proper allowance to a variety of customers. Our team achieve a gain of 5% in ROI measurement with steady revenue in 6 China major cities.
- Responsible for data processing, customer CTR model training and online predict serving with Python.

Open-Source Contribution

BaizeNLP – **A NLP toolkit** *Oct 2017 -- Jan 2018*

- Designed and developed a NLP toolkit which aimed to including a set of lexical analysis modules.
- Until now supports Chinese word segmentation feature with n-gram model and HMM model. Besides, supports unsupervised new word discovering (web demo) feature based on adjacent entropy and mutual information.

MovieTaster - A movie recommendation project based on Item2Vec *Aug 2017*

- Developed a web crawler to collect user generated content from a social networking website - Douban.
- Implemented Item2Vec algorithm in about 60K movies and 200K movie lists which was segmented by different topics.
- Created a web demo which generate movie recommend result by calculating cosine similarity of item vectors.

Scholarship and Awards:

Honorable Mention, Interdisciplinary Contest in Modeling *COMAP, USA, 2013*

Third Prize Scholarship *BUPT, China, 2011-2013*