Junjie Ye (Jacob)

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Education Background

University of Edinburgh

MSc 2014/09 - 2015/11
Artificial Intelligence
GPA: 65

Zhejiang University of Finance & Ecomomics

Dual Degree 2010/09 - 2014/06
Computer Science
GPA: 88/100
Taxation
GPA: 89/100

Profile

LinkedIn: Junjie Ye

Skills

Certificate

- Qualified Software Engineer
- Stanford University Machine Learning Certificate

Domain

- Machine Learning / Deep Learning
- Probabilistic Modelling / Bayesian Inference
- Reinforcement Learning / Game Theory
- Natural Language Process
- Speech Recognition
- Knowledge Graph
- Big Data / Data Mining
- Crawler

Projects

- HMM-GMM ASR System
- Kaggle Car Driver Identification
- Reinforcement Learning Coursework
- Game Theory Coursework
- Information Theory Coursework
- Business Intelligence
- Book Management System
- Tax Invoicing System

Skillset

- Tensorflow / Theano / Keras
- Hadoop / Spark / Hbase
- Docker
- Scrapy
- Flask
- MongoDB
- Neo4j / ArangoDB
- Redis
- Weka

Programming Language

Python • Java • Shell • Matlab • C/C++ • SQL • JavaScript • HTML/CSS • Markdown • LaTeX

Working Experience

Emotibot Technologies Limited — Shanghai, China

Research Engineer 2016/04 - Now

- Bot Memory Team:
  Design and implement Multi-Modal Architecture (Rule Engine + Machine Learning / Deep Learning) to memorize user information, including personal information, emotional status, habbits etc., within a conversational UI. Thereby making the bot more intelligent in understanding the context and intents.
  The system is implememted by Java, intergrated with multiple learning models via RESTful API. The deep learning part is based on TensorFlow. The input of the models is transformed by word2vec from raw sentences to vectors. The learning models use various architectures such as RNN, LSTM, GNU. The online accuracy of the system is over 90% and the offline accuracy is over 80%. The emotional status module is applying for a patent.
- Knowledge Graph Team:
  Construct large-scale knowledge graph, including general knowledge and domain knowledge (music, movies, sport, e-commerce etc.). Use Scrapy to build the web crawler part, and store data into HBase / MongoDB. Run ETL via Map-Reduce and data-mining via Spark. Store the knowledge entities and relations by Graph DBs (Neo4j / ArangoDB). The current scale of the knowledge graph has exceeded 10 million entities and millions of relations.

Standard Chartered Bank — Ningo, China

IT Department Intern 2013/10月 - 2014/01

- Co-operate credit evaluation for enterprises. Following and reporting customer credit evaluation results.
- Co-operate bank’s financial systems maintenance.

Ningbo Economic & Information Commission — Ningbo, China

Intern 2013/01 - 2013/02

- Learn industrial policies and standards of IT industry.

Xerox Businiess Co., Ltd. — Ningbo, China

IT Department and Dispatch Center Intern 2012/07 - 2012/08

- Deal with computer maintenance and software fault.

China Telecom — Ningbo, China

Network Departmant Intern 2011/07 - 2011/08

- Co-operate network breakdown disposal.

Research Experience

Recurrent Neural Network Acoustic Models

Postgraduate Thesis 2015/06 - 2015/08

Worked with Prof Steve Renals and Liang Lu in using recurrent neural network to address acoustic modelling problem in the Speech Recognition systems. The goal is to achieve better performance by recurrent neural network acoustic models over deep neural network acoustic models, and to investigating methods to improve recurrent neural network acoustic models. The project used Theano and Kaldi for constructing the whole Speech Recognition system.

Design and Implementation of Credit Evaluation System in Commercial Banks

Undergraduate Thesis 2014/02 - 2014/05

Inspired by the intern experience in Standard Chartered Bank, this financial system tries to automate the credit evaluation process in the commercial banks. The system is constructed using Java EE, and implemented using the industry standard tools (hibernate, struts and spring).