lizhangzhan(战立章)

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Summary

lizhangzhan, achieved master's degree in compute sicence and technology from BeiHang University in March 12, 2011, more than six years working experiences in software development and machine learning in advertising recommendation.

Education

March 2011	Master of Engineering in COMPUTER SCIENCE, Beihang University
July 2008	Bachelor of Science in MATHMATICS

Working Experience

June 2015 **Present**	**Senior Researcher**, **Tencent**, Beijing, China

Worked on developing online deep learning systems for Click Through Rate Prediction for Display Advertisement Social Ads using Kafka, Storm and Parameter Server etc.
- ▷ Built an end-end online training pipeline including feature extraction, model training, compression and scheduler for realtime CTR prediction.
- ▷ Optimize asynchronous parallel framework for gradient computation and parameter updating. Originally design layer-level optimization method to stabilize deep learning with online learing algorithms, such as, FTRL, Adam, FTML, Adadelta and KFAC, etc.
- ▷ Implement end-end online ensemble models to improve CTR prediction performance.
- ▷ Apply Isotonic regression model for PCTR Calibration

MARCH 2014 APRIL 2015	**Senior Developer Engineer,** *Bytedance*, Beijing, China

Focused on document multi-label classification and documents deduplication to serve for the news recommendation, document ranking for app news retrieval.
- ▷ Optimize document multi-label classification with SVM, achieving more than 93% accuracy(average) on the whole.
- ▷ Refactor document deduplication pipeline with simhash and semantic similarity clustering to balance precision-recall and improve system performance.
- ▷ Improve document query results ranking with LambdaMart model.

APRIL 2011 JANUARY 2014	**Software Developer Engineer,** *Oracle*, Beijing, China

Develop full-text retrieval for man(1) command in Solaris platform, and build text classification with teams in Big Data platform.
- ▷ Develop full-text retrieval for man(1) command in Solaris platform.
- ▷ Build text classification with teams in Big Data platform with SVM/LR/HMM.
- ▷ Experiment keyword extraction for document indexing.

Open Source Development

machine-learning-experiments

Collection of machine learning experiments for different models and algorithms.

Technical Skills

Languages	Java, C, C++, Python, Scala
Deep Learning Models	MLP, CNN, RNN
Optimization Algorithms	FTRL, Adadelta, Adam, KFAC
Machine Learning Libraries	Keras, Tensorflow, Scikit-learn
Data-Processing Frameworks	ParameterServer/Storm/Kafka/Spark