


LI ZHIPING

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Education

Tongji University

M.E. in Electronic and Information Engineering, Control Theory and Engineering

Sep. 2011 – Mar. 2014

Shanghai, China

Nanchang Hangkong University

B.E. in Electronic Engineering, Automation

Sep. 2007 – Jul. 2011

Nanchang, China

Research Interest

- I am interested in bioinformatics and exploring deep learning techniques to resolve related research problems.
- Deep learning algorithms for bioinformatics such as predictive modeling, causal inference and bayesian-optimized methods.

Selective Courses

- Pattern Recognition (94/100)
- Advanced Artificial Intelligence (92/100)
- Discrete Event Dynamic Systems (94/100)
- Complex Functions (94/100)
- Database and Application of Principles(92/100)
- Modern Control Theory(99/100)
- Engineering Drawing(91/100)
- Electrical Control Technology(93/100)
- Speech and Eloquence Theory(100/100)

Research Publication

Li, Zhiping. Multi-channel Seizure Prediction Based on Support Vector Machine[J]. Computer Engineering, DOI: 10.3969/j.issn.1000-3428.2014.02.043.

Research Experience

Prediction of epileptic seizure through machine learning and bioengineering.

- studied whether epilepsy is predictable and verified it through predicting the time of the next occurrence of epilepsy after it happened last time, with ICA and SVM. We finally further improved the performance through Monte Carlo statistical methods.
- evaluated our experiments on datasets from the University of Freiburg, Germany Prediction Center. Finally, we can achieve nearly zero false positive rate with 30 min-70 min before epilepsy happens, providing guidance for future systems.
- further proposed a wearable device, which has practical usage in real life.

Professional Experience

Ant Group Co Ltd.

Algorithm Expert

Oct. 2021 – Nov. 2022

Shanghai

- Managed a team to develop and iteratively update a recommending financial product on the Alipay App, boosting the conversion of non-Vanguard clients into Vanguard clients.
- Explored and implemented models based on the Entire Space Multi-Task Model
- Incorporated developed models into the Alipay App and conducted online experiments at a 10% scale.
- Increased the product click-through rate and post-click conversion rate (CTCVR) by **15%** and improved UV by **26%**, and set the products online.

One Hundred Meter Network Technology Co., Ltd.

Senior Algorithm Engineer

Mar. 2021 – Oct. 2021

shanghai

- Led the group and managed resources to develop a long-term interest model and a short-item interest model based on the Controllable Multi-Interest Framework for Recommendation
- Incorporated modules into the Ding Dong shopping app.
- Improved online long-term click through rate by **10%**, short-term click through rate by **35%**, and set the products online.

Baidu(China) Co., Ltd.

Jun. 2017 – Sep. 2019

Senior Algorithm Engineer

shanghai

- Led the project on behavior scoring models to predict individual credit risk based on customers' behaviors.
- Explored Seq2Seq models with bi-LSTM structure and attention mechanism, in order to generate effective behavioral sequences aimed at reducing bad credit rates.
- Extracted embedding vector features from models and integrated them into credit risk models.
- Validated online with small-scale traffic and achieved a Kolmogorov-Smirnov gain of **2%**.
- Led the Feature Mining project to enhance the Shared Feature Library.
- Explored and formatted data from various databases, including Baidu Map data, Baidu Forum data, and other mobile device data.
- Explored embedding features using models such as DBSCAN, Word2Vec, TextCNN, etc.
- Analyzed the effectiveness of features in mitigating credit risk, observing a Kolmogorov-Smirnov gain of **3%**, and incorporated them into the shared feature library.

Hua-Rui Bank(Shanghai)Co., Ltd.

Dec.2015 – Jun. 2016

Data Algorithm Engineer

shanghai

- Participated in developing projects to define metrics, including bad debt rate, overdue rate, fund rotation rate, etc.
- Preprocessed the data by addressing missing values and outliers, then conducted data analysis, including feature variable selection, binning, and the calculation of Weight of Evidence (WOE) and Information Value (IV)
- Analyzed data and constructed models using the Logistic Regression Model.
- Contributed to build a recommendation system for financial products.
- Analyzed customer channels and other features to group them into clusters.
- Implemented GBDT+LR models for new customers and utilized Item-based Collaborative Filtering for mature customers and explored effective user segmentation methods to enhance conversion rates.
- Increased click through rate by **10%** and post-click conversion rate of new customers by **2%**.

Skills

Python, Matlab, C, SQL, Unix/Linux, TensorFlow, Paddle-Paddle

Awards and Certification

Awards and Achievements

- Outstanding Student Scholarship, Nanchang Hangkong University awarded to **5%** students. **2007, 2008**
- **Top Ten** Students of the University, Nanchang Hangkong University. **2010**
- **Second Prize**, Outstanding Student Scholarship, Nanchang Hangkong University. **2007**
- National Mathematical Modeling Competition awarded to **5%** students. **2010**
- Outstanding Student Scholarship, Tongji University awarded to **5%** students. **2012**

Certification

- *Algorithms*, Authorized by Stanford University through Coursera.
- *Deep learning in AI*, Authorised by DeepLearning AI through Coursera.
- *DeepLearning.AI TensorFlow Developer*, Authorized by DeepLearning.AI through Coursera.