

FAN YELIANG

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🎓 EDUCATION

Hebei University of Technology (HEBUT), Tianjin, China 2012 – 2015

M.S. in Management GPA: 85/100 Top 2%

- 2nd Prize Scholarship (Top 5%), Outstanding Student (Top 5%), Outstanding Student Leader(Top 5%)
- Outstanding Graduate Student of Hebei Province (TOP 2%)
- 1st Prize of ChuangQingChun Business Plan Competition of Hebei Province (Team Leader)

Hebei University of Technology (HEBUT), Tianjin, China 2008 – 2012

B.S. in Management GPA: 87/100 Top 2%

- 1st Prize Scholarship (Top 2%), Outstanding Student (Top 5%), Outstanding Student Leader(Top 5%)
- President of Student Union of School of Management

👤 EXPERIENCE

JD Finance Beijing, P.R. China Dec. 2014 – Present

Algorithms Engineer

Daat (Knowledge Graph of Finance) *Project Leader* Apr. 2018 – Present

- **JD Finance Knowledge Graph Technical White Paper**: Investigate the entire Knowledge Graph technology stack, including realted models, data, evaluation reports and open source tools, and summarize the final research report.
- **Automatic Sensitive Information Identification**: Automatic sensitive information identification for data stored in the data warehouse, assisted with data encryption policy implementation. The model is constructed using the Wide & Deep network based on the meta-information of the data (e.g., table name, table comment, column name, column comment, etc.) and value-information of the data (e.g., the data values of every column). Build the Wide network with extracted traditional features and the Deep network with text features using Char Embedding + CNN, and the F1-Score on test data is 95%+.

All Seeing Eyes (Chinese Address Analytics) *Project Leader* Mar. 2015 – Apr. 2018

- Development of **hinese address analytics algorithms**, including: segmentataion, classification, integrity, POI identification and similarity **accuracy 90%+**).
- Development of **Address Profile System** based on the basic algorithm engine. It increased the conversion rate of users by 30%+ in the offline payment service.
- Development of the anti-fraud and credit model based on the Chinese address analysis system. The anti-fraud model identified illegal encashment orders with **200,000 yuan/day**, and more than **10 million users** were granted credit with the credit model.
- This project has beed awarded the **"Innovation Seed" prize** of JingYa Cup innovation competition in JD.com ranking **20 of 378**.
- Development of **Enterprise Address Profile System** based on the basic algorithm engine which was embedded into **JD LangJing Credit System** (<https://icredit.jd.com/>).
- Development of **Rural Finance Service Station Location Solution** base on the Address Profile System.

User Behavior Analytics *Algorithms Engineer*

Otc. 2017 – Dec. 2017

- Development of a user behavior representation method named on Behavior2Vec. Based on hierarchical clustering and depth search, a hybrid model for identifying user abnormal behavior is proposed. Compared with Bag of Words and N-GRAM methods, the number of abnormal users identified is **3+ times** of traditional methods.

Mortgage Loan *Algorithms Engineer*

Mar. 2015 – Otc. 2015

- Development of a hybrid product life cycle identification model based on Bass Diffusion model, optimized time series similarity method and clustering method. It got an **accuracy of 95%+** when identifying the excess inventory products, which helped to make loans goods pledge decisions and calculate the loan-to-value ratio.
- Development of product information fusion model and system with ElasticSearch which got **90%+ recognition accuracy** and provided accurate and relevant information, such as price, etc.

Founder International Co., Ltd.

Nov. 2013 – Feb. 2014

Algorithms Engineer Intern

Smart Public Security (EzMap) *Algorithms Engineer*

- Development of a series prediction algorithm based on EMD and SVR for crime analysis and time series prediction in smart city project.
- Development of a serial crime case identification algorithm based on k-prototypes.
- Development of public security metadata import tools and XML based police GIS database upgrade tools.

⚙️ SKILLS

- Programming Languages: R: ★★★★★☆ Python: ★★★★★☆ Java: ★★★★★☆ SQL: ★★★★★☆
- Frameworks: Linux: ★★★★★☆ TensorFlow: ★★★★★☆ Qt: ★★★★★☆
- Language Skills: CET-6: 518, fluent in communication, reading and writing skillful in English.

📖 RESEARCH

- Li, Jie, **Fan, Yeliang**, et al. "An Improved Forecasting Algorithm for Spare Parts of Short Life Cycle Products Based on EMD-SVM." *Information Science and Cloud Computing Companion(ISCC-C), 2013 International Conference on*. IEEE, . 2013
- Chinese address segmentation method and system (Patents, CN105159949A, 1st Inventor) 2015
- Product inventory predicting method and device (Patents, CN106056239A, 1st Inventor) 2016
- Product life cycle identification method and device (Patents, CN106408217A, 1st Inventor) 2017
- Chinese address similarity calculation method and device (Patents, CN107239442A, 1st Inventor) 2017
- Zhou Feng, Li Huafei, Zhan Lizhang, **Fan Yeliang**, et al. (2018) A Novel Ensemble Strategy Combining Gradient Boosted Decision Trees and Factorization Machine Based Neural Network for Clicks Prediction. In *Big Data and Artificial Intelligence, 2018 International Conference on*. 2018
- Data warehouse wide table automation construction method based on information extraction (Patents, in progress, 1st Inventor) 2018
- Intelligent identification method for sensitive information (Patents, in progress, 1st Inventor) 2018

📦 OPEN SOURCE PROJECTS

- Github: <https://github.com/leovan>
- Data Science Introduction With R, a getting started tutorial of data science based on R (in Chinese). 🌟 Stars: 6。
- Sci-Hub EVA: a cross-platform Sci-Hub GUI application. 🌟 Stars: 226。

i SELF-EVALUATION

- Capacity for adaption and learning and have team spirit.
- Like to take challenges, can work under pressure.
- Have a keen insight and a high sense of responsibility.
- Can think in others' shoes and communicate with people appropriately.