Xian Li

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Education

Harbin Institute of Technology 08/2018 – 01/2021

Master in Computer Science, School of Computer Science and Technology. Average Score:80.51/100

Henan University (Double First-Class) 08/2014 – 07/2018

B.Eng. in Network Engineering, School of Computer and Information Engineering. GPA: 3.66/4, **Recommended Postgraduate**

Experience

Tencent Shenzhen

Recommended Algorithm Engineer (Application Research Position) 01/2021 – Now

- Responsible for optimizing the short video recommendation model of QQ Kandian. Built a personalized recommendation service for QQ Kandian Friend Channel from 0 to 1, which significantly improved the users' experience and increased the viewing time of users by 25.46% and the interaction rate by 18.06%.
- Through optimizing the recommendation model on features and structures, which brought a 1.88% improvement in total users' viewing time on QQ Small World. In particular, a list-wise-based model with multi-targets was successfully applied in rerank stage and an expert network with long session modeling and attention mechanism introduced into a MMOE model also improved the recommendation effect. In addition, a clustering network based on attribute features is introduced to enhance the embedding feature expression of cold start items and user IDs.
- Responsible for building e-commerce personalized recommendation service on QQ Small World, including recall stage, pre-rank stage and rank stage, which doubled the Click-through Rate(CTR) and the Gross Merchandise Volume(GMV) of business cards.

Publications

- **Xian Li**, Xiaofei Yang, Xutao Li, Shijian Lu, Yunming Ye, Yifang Ban "GCDB-UNet: A Novel Robust Cloud Detection Approach for Remote Sensing Images," in **Knowledge-Based Systems, 2022.** [PDF]

  Introduction: This article mainly studies the problem of semantic segmentation of cloud pixels and non-cloud pixels in satellite remote sensing images. In view of the difficulty in detecting thin cloud areas, this article proposes a Global Context Dense Block(GCDB) based on the Non-local self-attention module and the channel attention module for feature extraction, significantly improving the detection accuracy of thin cloud areas

Patent and Software Copyright

- **Patent:** Remote sensing image cloud detection method based on fully convolutional network. Application No. **CN202010440430.0**
- **Software Copyright:** Satellite image cloud detection system software based on deep learning. Registration No. **2020SR0496351**

Selected Awards

- National Encouragement Scholarship 2016, 2017
- First Class Scholarship of Harbin Institute of Technology 2018
- Outstanding League member-Diligence and Truth-seeking Award of Harbin Institute of Technology 2019
- Second Class Scholarship of Harbin Institute of Technology 2019, 2020
- Second Prize for Technical Contribution of Big Data Research Center, Harbin Institute of Technology 2019
- Outstanding Graduates of Henan Province 2018
- National Second Prize of Lanqiao Cup (Programming Competition) 2017
- National Third Prize of MathorCup College Mathematical Modeling Challenge 2017
- Noational Second Prize of May Day Mathematical Contest in Modeling 2017

Skills

- **Programming Languages and Tools:** Python, Go, Java, C/C++, PyTorch, TensorFlow, Spark, Git, LaTeX
- **English:** IELTS(6.0), CET-6(487) and CET-4(510)