Jifeng
Du

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Education

2018 ~ 2021 **Master of Particle Physics and Nuclear Physics**
Chinese Academy of Sciences

2017 ~ 2018 **Master of Particle Physics and Nuclear Physics**
University of Science and Technology of China

2013 ~ 2017 **Bachelor of Engineering**
North China Electric Power University

Working Experience

2021.05 ~ *present* **Algorithm Engineer**
Matrixelement, Shanghai, China

Be responsible for MPC protocol design and optimization

1. Design XGBoost protocols under MPC setting
2. Design Sorting, Permutation protocols and optimize them.
3. Write patents about MPC
4. Do some coding.

Skill

1. Familiar with secure multi-party computing (SecureNN, ABY3, FALCON, etc.), Federated Learning (Secure Boost) and Computer Vision(Object Detection). All have related working experience.
2. Familiar with LR, PCA, SVD, SVM, Decision Tree, Random Forest, Kmeans, GMM, HMM, GBDT, XGBoost.
3. Familiar with C, C++, Python, Tensorflow and Pytorch.

Internship

2020.11 ~ 2021.02

1. **Algorithm Engineer**
   Blue Elephant, Hangzhou, China

   Modify the FATE framework and re-implement the federated learning components.

2019.07 ~ 2019.10

2. **IC Verification Engineer**
   Cambrian, Beijing, China

   Coding on C, C++ and Python.

2019.03 ~ 2019.06

3. **Algorithm Engineer**
   Hikvision, Hangzhou, China

   Implement YOLOv3 Object Detection from scratch and work on projects about voiceprint recognition

Awards

2014.11 Second Prize, **National College Mathematic Contest**, China

2014.11 Learning Excellence, North China Electric Power University, Hebei, China

2015.11 Second Prize, College Mathematical Modeling Competition, Hebei, China

Publication

2019 **Jifeng Du**, Jun Meng, Xiao-Yan Li, Beien Zhu and Yi Gao, Multiscale atomistic simulation of metal nanoparticles under working conditions, ***Nanoscale Adv.***