Deqiang Zou

Data Science

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I have a background of mathematics and physics, ever conducting scientific research about mathematics modeling and algorithms on complex networks in college, which aims to apply to complex systems with numerical simulations, such as power grid, economic fraud, etc. Besides that, I take part in the data science division of making AI applications with machine learning at the Northeast Asian Mathematical Center. During the gap years, I attend an artificial intelligence research institute and proceed with hybrid algorithms, anomaly detection, and optimization in the academy-industrial crossing field, which basically takes over national projects and promotes techniques. This period really examines and boosts capacity somehow. I propose a bit of consideration where creativity and novelty are deserved among achievements like papers, patents, and scientific materials. I suppose to be a dedicated person, and willingly cooperate with partners from all walks of life to create valuable work.

EDUCATION

Master of Applied Statistics (Mathematics), *Jilin University*	06.30 2021
Bachelor of Nuclear Engineering and Technique (Physics), *Northeast Electric Power University*	06.30 2018
Mathematical Modeling Award, University Fellowship Award, Academic Scholarship Award, Jilin University	2020 — 2021

SKILLS

Background	mathematics (probability), physics
Techniques	machine learning, deep learning, mathematics modeling, optimization
Software & Libraries	python, c++, matlab, linux, mysql, tableau, r, spss, origin
	pytorch, tensorflow, skit-learn, numpy, pandas, matplotlib, seaborn, selenium, etc
Algorithms	svm, gbdt, xgboost, isolate forest, fm, pca, em, bayes, mcmc, genetic algorithm, etc
	hybrid models, optimizations, anomaly detection, etc
Languages	english(qualified), mandarin(native)

TECHNICAL EXPERIENCE

Data Scientist / AI Algorithm Engineer   07.21 2021 — 12.30 2022
Inspur Artificial Intelligence Research Institute   *Jinan, China*

- Reports of international conferences on algorithms, distributed computing, industry 4.0, etc.
- Cutting-Edge study on algorithms and techniques, just as hybrid model, anomaly detection, optimization, etc.
- Industry application and cooperation with partners from all walks of life.
- Achievements : 2+ papers & 5+ patents & 7+ AI materials.

Researcher / Mathematics modeling: Complex Network and Random Graph   2019 12.10 — 2021.06.30
Mathematics Department of Jilin University   *ChangChun, China*

- Theory deducting of complex network and random graph.
- Embark academic papers, seminars, and presentations in School of Mathematics.
- Propose the modeling system of the complex network with generalized random graph theory and deduct its magnitude to converge into goals with rigorous proofs.
- Bayes process with Markov Chain Monte Carlo to capture its magnitude and proceed with massive simulation.
- Awarded by committee "Bayes Inference of Exponential Degree Distribution Complex Networks".

Researcher / Data Science Group with Analysis Methodology and Platform Construction   10.01 2020 — 03.30 2021
Northeast Asian Mathematical Center   *ChangChun, China*

- Data mining and analysis on industries, medicals, correspondence, etc.
- Data processing, data engineering, modeling, optimization, applying, etc.
- Reports and documents.
- Discussion and conclusion.
- Publicity.

ACHIEVEMENTS

The Action Recognition with Muti-Clue Sparse 3-Dimensional Convolutional Networks	(Publishing 2022)
A Novel Perspective towards SVM Combined with Autoencoder, DOI: 10.1088/1742-6596/2347/1/012011	(Published 2022)
Bayes Inference of Exponential Degree Distribution Complex Networks, DOI: 10.27162/d.cnki.gjlin.2021.004974	(Published 2021)
(CN114826971B) A kind of double-sides anomaly detection server, system and device	(Authorized 2022)
(CN114722746B) A kind of chip design based on machine learning method, system and device	(Authorized 2021)
(CN) A kind of lazy dimension reduction method, system and device	(Reviewing 2022)
(CN) A kind of action recognition based on video convolution method, system and device	(Reviewing 2022)
(CN) A kind of self-adaptive optimization method, system and device	(Accepted 2023)