

GAOMIN WU

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Targeting a Data Scientist full-time position 2021

EDUCATION

New York University, Center for Data Science June 2021
Master of Science in Data Science GPA: 3.93/4.0
Tongji University, School of Physics Science & Engineering June 2019
Bachelor of Applied Physics GPA: 4.64/5.0
Relevant Courses: Introduction to Data Science; Probability and Statistics; Multivariate Statistical Analysis; Machine Learning; Big Data; Deep Learning; Probabilistic Time Series; Natural Language Processing ;Deep Reinforcement Learning;

WORK EXPERIENCE & RESEARCH

Amazon Web Service June 2020 - August 2020
Data Center Capacity Delivery and Planning Team Data Scientist Intern
· Develop dashboards to track root causes for sub-optimal orders in the ordering system, and measure the opportunity cost of them.
· Analyse ordering system and deliver insights projecting to improve optimality and reduce the opportunity cost by million dollars.

Alibaba Group Dec 2019 - Jan 2020
Business Platform Division Machine Learning Intern
· Design, develop and deploy an offline reinforcement learning framework with constraints for sign-in cash bonus sending strategy in order to maximize users' retention rate with constrained budget in Taobao App Special Version.
· Facilitate the deployment of data preprocessing, model training, and data reflow framework of the model for on-line evaluation.

New York University Sept 2019 - June 2020
Stern School of Business Part-time Research Assistant
· Design and develop a deep reinforcement learning for application of coupon targeting in live stream shopping which has 6% increase in redemption compared with the original supervised learning method.
· Build the data and model pipeline, and implement several off-policy evaluation methods for offline evaluation.

City University of Hong Kong July 2018 - July 2019
Management Science Department Part-time Research Assistant
· Implement machine learning(ridge, lasso, GBDT etc.) and neural networks on different financial data for return prediction model via Python (Sklearn & Keras) to compare performance of different algorithms under cumulative training window.

eBay Feb 2019 - July 2019
Global Trust Team Data Analyst Intern
· Implemented an end-to-end machine learning project of Transaction Defect Prediction.
· Built several complete ETL pipelines using SQL to monitor defect KPIs with weekly reports for regional leads consideration.

PROJECTS

News Session-based Recommendation System using Recurrent Neural Networks Nov. 2019 - Dec. 2019
· Trained a recommendation system of the news article using a recurrent neural network based method – GRU4Rec and with item-based KNN and session-based KNN as baseline models.

Chatbot with persona Sept. 2019 - Oct. 2019
· Trained Seq2Seq model with attention on ConvAI dataset for training, and implement beam search to generate prediction.

PUBLICATIONS

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1. "Asymmetric nonlinear system is not sufficient for a nonreciprocal wave diode," Gaomin Wu, Yang Long, and Jie Ren, **Physical Review B** 97.20 (2018): 205423.
 2. "Reciprocal conditions in one-dimensional nonlinear wave systems." Yan, Hengzhe, Gaomin Wu, and Jie Ren. **Physical Review E** 100.1 (2019): 012207.
 3. "Nonlinear Heat Radiation Induces Thermal Rectifier in Asymmetric Holey Composites." Zhu, Weiwei, Gaomin Wu, Hong Chen, and Jie Ren. **Frontiers in Energy Research** 6 (2018): 9.

TECHNICAL SKILLS

Programming: Python, Git, Spark, SQL, R, MATLAB, C/C++
Software & Tools: LaTeX, Scikit-Learn, Keras, PyTorch, PySpark, AWS, Mathematica