

Jiale Zha

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EDUCATION

University of Michigan, Ann Arbor		09/2021-05/2023
Master of Science in Applied Statistics		Ann Arbor, MI
Coursework:	Data Science With Python	NLP Algorithm and People
Nanjing University (NJU)		09/2017-07/2021
Bachelor of Science in Mathematical Applications		Nanjing, China
Selected Honors:	First Prize of People's Scholarship, 2020 (Top 5%)	
Coursework:	Statistical Machine Learning	Multivariate Statistical Analysis
	Introduction to Database	Stochastic Optimization
University of California, Berkeley		09/2019-12/2019
One-Semester Exchange		Berkeley, CA
Coursework:	Concepts of Computing with Data	Stochastic Process
	Optimization Models in Engineering	Concepts of Statistics

SKILLS

Data Science

Python, C++, SQL, R, Machine Learning, Deep Learning, Statistical Analysis, Redshift, SageMaker

WORKING EXPERIENCE

Amazon		05/2022-09/2022
Data Scientist Intern		Seattle, WA
<ul style="list-style-type: none">Project on regional profit prediction in US marketInvestigated factors influencing regional profit, construct dataset by Redshift SQL with historical profit information, build machine learning models (Random Forest, Gradient Boosting...) to predict regional profit		
Boya Big Data College		06/2020-09/2020
Data Scientist Intern		Beijing, China
<ul style="list-style-type: none">Conducted teaching research on the Linux Operating System and Machine LearningParticipated in the Aliyun Tianchi Second-hand Car Price Prediction Project, processed 150,000 entries of car-related data with PCA and MeanEncoder Method and predict the price with XGBoosting, Random Forest...		
Huatai Securities		07/2019-09/2019
Data Analyst Intern		Nanjing, China
<ul style="list-style-type: none">Collected and merged client's account data, checked whether related bank statementsParticipated in the client risk evaluation, scored client's risk level according to the records of the risk system		

DATA SCIENCE PROJECTS

Algorithm Research on Relation Extraction System		02/2022-05/2022
<ul style="list-style-type: none">Extracted relationship between entities in a sentence, built traditional SVM model with semantic features like token dependency and parse tree and deep learning model like Bi-LSTM and TransformerTrained and tested on the combined dataset from NYT, ACE2005 and Wiki, got over 77% accuracy, precision, recall and f1 score		
Algorithm Research on Multi-Armed Bandit Problem		12/2020-06/2021
<ul style="list-style-type: none">Solved the Multi-armed bandit problem under partially observable 3-D Markov decision processProved the effectiveness of classical Whittle Index Policy with Eigenvalue analysis and Matrix analysisDeduced a closed-form expression of Whittle Index in 3-D situation		
Statistical Analysis on COVID-19 Development		03/2020-05/2020
<ul style="list-style-type: none">Aimed to analyze the development trend of COVID-19 in 7 provinces based on the SEIR modelDeduced the infection rate, cure rate and mortality rate of COVID-19 in various regions through dichotomy combined with grid search, conducted fitting of the epidemic trend in line with the actual situation		

