

Grant Chen

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EDUCATION

University of Chicago	Chicago, US
M.S. in Statistics (GPA: 3.64 / 4.00)	Sep. 2022 - March. 2024 (Expected)
Courses: Big Data, Applied Linear Stat Methods, Multivariate Statistical Analysis, Statistical Analysis in Clinical Trial	
National Chengchi University	Taipei, Taiwan
B.S. in Statistics and Minor in Management Information Systems (GPA: 3.84 / 4.00)	Sep. 2017 - Jan. 2022
Honor: Academic Excellence Award (top 5% of class in semester)	
Courses: Machine Learning, Computing for Business Data Analytics, Algorithms, Database application, Regression analysis	

SKILLS

Programming Languages: Python, R, SQL, SAS
Tools: AWS, Git, Hadoop, Spark, Linux, Flask, Elastic, Docker, Tableau, PowerBI, Excel, SPSS
Machine Learning Frameworks: Pytorch, TensorFlow, Keras, Scikit-learn
Knowledge: Statistical Analysis, A/B testing, Machine/Deep Learning, Natural Language Processing, MLOps, Business

PROFESSIONAL EXPERIENCE

Argonne National Laboratory	Chicago, IL
Lead Data Scientist	Sep. 2023 - Present
<ul style="list-style-type: none">Headed 5-person collaborative project with University of Chicago, utilizing Scrum methodology to develop AI-enhanced policy management system for optimizing operational requirementsLed knowledge graph-based digital twin system for policy documents, leveraging Large Language Models to achieve 80% reduction in manual effort required for discovering and maintaining requirementsImplemented Neo4j graph database for enhanced data management and visualization, facilitating discovery of concealed document relationships	
Industrial Technology Research Institute (ITRI)	Hsinchu, Taiwan
Data Scientist	June. 2023 - Sep. 2023
<ul style="list-style-type: none">Enhanced recommendation model by fine-tuning Large Language Models (LLMs) for precise information extraction and accurate embeddings from product text descriptionsEngineered end-to-end data pipeline by utilizing Spark for text preprocessing and Elasticsearch for unstructured data management, resulting in 400% improvement in data processing speedDeployed recommendation model on AWS EC2 using Flask and Docker, leading to 67% reduction in response time, accommodating over 100,000 users during a high-traffic exhibition	
Research Center for Information Technology Innovation (CITI), Academia Sinica	Taipei, Taiwan
Machine Learning Researcher, Computational Finance and Data Analytics Lab	Oct. 2021 - May. 2022
<ul style="list-style-type: none">Enhanced E.SUN Bank's Fund Recommendation System using Neural Collaborative Filtering, integrating user metadata including Know Your Customer (KYC) data, purchase history, and fund feature analysis, leading to 48% boost in salesDeveloped Multi-Behavior Recommendation Model with novel embedding design and submitted to IJCAI conferenceConducted in-depth analysis and delivered valuable insights from 30+ papers to non-technical stakeholders, focusing on potential applications in finance domain	
Fubon Financial Holding Co., Ltd.	Taipei, Taiwan
Data Analyst Intern	July. 2020 - Aug. 2020
<ul style="list-style-type: none">Transformed actionable insights from customer segmentation and churn prediction model into effective strategies via collaboration with cross-functional teams in Product, Marketing, IT, and Sales, driving 36% increase in financial product salesEstablished and maintained Tableau dashboards for real-time monitoring of marketing campaigns and sales performance, resulting in 76% reduction in daily report generation timeImplemented a combination of Selenium crawler and Natural Language Processing to label 20,000 merchants, resulting in 400% increase in efficiency and 80% reduction in manual tasks	
Data Yoo Application Co., Ltd.	Taipei, Taiwan
Data Science Intern	Jan. 2020 - June. 2020
<ul style="list-style-type: none">Deployed price forecasting model in AWS SageMaker, establishing retraining pipeline for continuous improvementConducted multiple end-to-end A/B tests to enhance the user interface and evaluate new features, resulting in 25% increase in user engagement and a 30% improvement in conversion rateDesigned and managed Tableau dashboards for agricultural wholesalers and retailers, providing instant visualization of crop price trends and trade volume fluctuations	