

Grant Chen

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EDUCATION

University of Chicago	Chicago, IL
M.S. in Statistics (GPA: 3.7 / 4.0)	Sep. 2022 - March. 2024
National Chengchi University	Taipei, Taiwan
B.S. in Statistics and Minor in Management Information Systems (GPA: 3.9 / 4.0)	Sep. 2017 - Jan. 2022

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: Casual Inference, Survey Study, A/B testing, Machine/Deep Learning, NLP, MLOps, Business Intelligence, Scrum

PROFESSIONAL EXPERIENCE

NORC at the University of Chicago - Chicago, IL	Oct. 2023 - March. 2024
<i>Data Scientist</i>	<i>Azure, ML Pipeline, PowerBI, XGBoost, Survey Study</i>
<ul style="list-style-type: none">Implemented a reproducible pipeline for identifying and visualizing bias in NORC's vendor data and flag prediction models, targeting inaccurate flags and underrepresented populations to improve the representativeness of survey resultsAnalyzed biases in predictions for African American individuals of NORC's flag prediction models by cross-referencing census tables and AmeriSpeak data, focusing on addressing misinformation and underrepresentation in demographic distribution	
Data Science Clinic, Data Science Institute at the University of Chicago - Chicago, IL	Sep. 2023 - March. 2024
<i>Lead Data Scientist</i>	<i>HuggingFace, PyTorch, LLM, Generative Model, Sentiment Analysis</i>
<ul style="list-style-type: none">Headed team collaboration with Chicago Trading Company, employing prompt engineering on GPT4 for automating financial market tweet labeling and implemented LLM for sentiment scoring, reducing 16% of Mean Squared Error (MSE) in stock predictionSupervised collaborative development of Stable Diffusion generative model with Fermi Laboratory, achieving 92% accuracy in approximation of physics experimentsLed the implementation of AI-enhanced policy management system in Argonne National Laboratory, leveraging Large Language Models and Neo4j graph database to achieve 80% reduction in manual effort for information retrieval and updates	
Industrial Technology Research Institute (ITRI) - Hsinchu, Taiwan	June. 2023 - Sep. 2023
<i>Data Scientist</i>	<i>AWS, PySpark, Docker, Flask, HuggingFace, LLM, ETL</i>
<ul style="list-style-type: none">Enhanced recommendation model by fine-tuning Large Language Models (LLMs) with HuggingFace 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, increasing 400% in data processing speedDeployed recommendation model on AWS EC2 using Flask and Docker, decreasing 67% response time and accommodating 100,000+ users during a high-traffic exhibition	
Research Center for Information Technology Innovation (CITI), Academia Sinica - Taipei, Taiwan	Oct. 2021 - May. 2022
<i>Machine Learning Researcher, Computational Finance and Data Analytics Lab</i>	<i>Pytorch, Recommendation System, Literature Review</i>
<ul style="list-style-type: none">Enhanced E.SUN Bank's (Top 3 financial institutions in Taiwan) Mutual Fund Recommendation System by Neural Collaborative Filtering by integrating user metadata including Know Your Customer (KYC) data, purchase history, and fund feature analysis, boosting 65% in revenueEstablished 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	July. 2020 - Aug. 2020
<i>Data Analyst Intern</i>	<i>Hadoop, PySpark, SQL, Tableau, NLP, Customer Segmentation, Customer Retention</i>
<ul style="list-style-type: none">Coordinated with cross-functional teams in Product, Marketing, IT, and Sales to transform actionable insights from customer segment and churn prediction model into effective strategies, increasing 36% financial product salesEstablished and maintained Tableau dashboards for real-time monitoring of marketing campaigns and sales performance, reducing 76% daily report generation timeImplemented a combination of Selenium crawler and Natural Language Processing to label 20,000 merchants, reducing 80% manual processing time	
Data Yoo Application Co., Ltd. - Taipei, Taiwan	Jan. 2020 - June. 2020
<i>Data Science Intern</i>	<i>MySQL, AWS SageMaker, Tableau, A/B Testing, Price Forecasting</i>
<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, achieved 25% increase in user engagement and 30% in conversion rateDesigned and managed Tableau dashboards for agricultural wholesalers and retailers, providing instant visualization of crop price trends and trade volume fluctuations	