

Grant Chen

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EDUCATION

University of Chicago

Chicago, IL

M.S. in Statistics (GPA: 3.64 / 4.00)

Sep. 2022 - Dec. 2023

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 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: Casual Learning, A/B testing, Machine/Deep Learning, Natural Language Processing, MLOps, Business Intelligence

PROFESSIONAL EXPERIENCE

Argonne National Laboratory

Chicago, IL

Lead Data Scientist

Sep. 2023 - Present

- Led team of five using Scrum methodology to develop AI-enhanced policy management system, leveraging Large Language Models to achieve 80% reduction in manual effort required for discovering and updating policy documents
- Implemented Neo4j graph database for data management enhancement and visualization, facilitating document retrieval using keyword-based queries

Industrial Technology Research Institute (ITRI)

Hsinchu, Taiwan

Data Scientist

June. 2023 - Sep. 2023

- Enhanced recommendation model by fine-tuning Large Language Models (LLMs) with HuggingFace for precise information extraction and accurate embeddings from product text descriptions
- Engineered end-to-end data pipeline by utilizing Spark for text preprocessing and Elasticsearch for unstructured data management, increasing 400% in data processing speed
- Deployed 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

Machine Learning Researcher, Computational Finance and Data Analytics Lab

Oct. 2021 - May. 2022

- 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 revenue
- Established Multi-Behavior Recommendation Model with novel embedding design and submitted to IJCAI conference
- Conducted 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

- 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 sales
- Established and maintained Tableau dashboards for real-time monitoring of marketing campaigns and sales performance, reducing 76% daily report generation time
- Implemented 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

Data Science Intern

Jan. 2020 - June. 2020

- Deployed price forecasting model in AWS SageMaker, establishing retraining pipeline for continuous improvement
- Conducted 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 rate
- Designed and managed Tableau dashboards for agricultural wholesalers and retailers, providing instant visualization of crop price trends and trade volume fluctuations