Jinjia (Eric) Zhang

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EDUCATION

Brown University **Providence, RI**
M.S. in Data Science Sept 2024-May 2026
GPA: 3.95/4.0
Courses: Calculus, Linear Algebra, Probability and Statistics, Numerical Analysis and Optimization, Interdisciplinary Data Analysis, Computer Vision, Statistical Machine Learning.

Duke Kunshan University (DKU) & Duke University Dual Degree **Jiangsu, China & Durham, NC**
B.S. in Data Science (DKU) & B.A. in Interdisciplinary Data Science (Duke) Sept 2020-July 2024
GPA: 3.75/4.0

AWARDS & TECHNICAL SKILLS & LANGUAGE

Publications: Zhang, Jinjia. A Comparative Analysis and Investigation of Attn-GAN and SSA-GAN for Text-to-Image Generation, 2023, Published on CONF-SPML 2024.
Patents: Zhang, Jinjia. Omnidirectional Tracked Vehicle. Patent Number: 201810354508X. Issued by China National Intellectual Property Administration. Published on October 12, 2020.
Awards: 2023 MCM: S Award, Dean's List: Spring 2022
Skills: Python, C, Java, SQL, NoSQL, JavaScript, HTML, MATLAB, R, PyTorch, Tensorflow
Languages: English (fluent), Mandarin (native)

PROFESSIONAL EXPERIENCE

Definer Lab **Remote, US**
Data Scientist Intern Jan 2025-Mar 2025
- Used SQL queries to analyze user and transaction data for Ethereum and Polygon cryptocurrencies, including Fin Token and Kira Kuru Token.
- Utilized Dune Analytics Platform to query and visualize the daily/weekly/monthly transactions and users, and top 10 active users in each cryptocurrency.
- Use the Prophet model in Meta to predict the number of daily users and daily transactions in the next 6 months, helping our company make decisions in the cryptocurrency market.

Shanghai Zidan Printing Co. Ltd **Shanghai, China**
Intern in Python/Machine Learning May 2023-June 2023
- Inspected elements of websites, scrapped and collected 3,000+ pieces of data of similar products from shopping websites.
- Cleaned data using Python, and classified the products into 5 clusters using K-means. Applied silhouette score to determine the value of K.
- Collected 10+ technical parameters of those products from the Bureau of Quality Supervision as the training data set, use the previous K-means model to predict the possible clusters of the new product, and evaluated its likely application scenario, which can be a significant reference for releasing the new product.

CITIC Securities **Guangdong, China**
Intern in Business Analytics July 2022-Aug 2022
- Cleaned and analyzed 5,000+ pieces of data on the price of CSI 500 stocks in recent years using Python and visualized the stock's daily prices on Tableau.
- Built 3 LSTM models on tech, finance, and energy categories in CSI 500 to predict the tendency of each category's stocks and financial products with an average RMSE value of 0.83, helping investors make decisions.

RESEARCH EXPERIENCE

Summer Research at SJTU **Shanghai, China**
Study on Text-to-Image Generation by GAN: Group Member June 2023-Aug 2023
- Achieved text-to-image generation by building two generative adversarial network (GAN) models—Attention-Guided GAN (Attn-GAN) and Semantic-Spatial Aware GAN (SSA-GAN) and utilizing the COCO dataset and the CUB dataset.
- The results reveal that SSA-GAN excels in generating images with superior semantic consistency and fine-grained details, while Attn-GAN produces diverse and visually appealing images.
- The work is published on CONF-SPML 2024.

LEADERSHIP & SERVICE

Zu Chongzhi Center for Mathematics and Computer Science at DKU **Jiangsu, China**
Teaching Assistant: Calculus Oct 2021-Dec 2021
- Managed 30+ students for the calculus course, invigilated two exams, gave three biweekly quizzes, and answered questions after recitations.
- Prepare recitations by recording the confused part of students using two surveys each week.