Jiekun Liu

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Education

 University of California, Berkeley Bachelor of Arts in Statistics Berkeley, California, USA May 2024

Work Experience

。 Atombits

Beijing, China

Data Engineer, Virtual Avatar

January 2022 – July 2022

- Deployed the VLAD algorithm based on the BoW API in Python with the Kinetics dataset on text-to-speech and mouth video data, improved animation accuracy by 10%
- Adopted **pratt** tools for speech annotation, utilized **LSTM** model to optimize interaction sequences, user test showed that the comprehension rate of voice texts increased by **12%**
- Incorporated **Apache Kafka** by integrating Kafka producers at the data source for real-time log data streaming, resulting in a 15% improvement in system monitoring

LiYi International Trade Company

Data Engineer, Jewelry Business

Cupertino, California, USA October 2022 – May 2023

- Queried and filtered high-value customers by MySQL, distributed targeted digital coupons based on purchasing behaviors, and achieved a 12% growth in cross-selling revenue
- Utilized historical jewelry data, trained an LSTM model in Python with TensorFlow, recognized seasonal sales trends. Conducted promotions for the peak season, and led to a 25% sales increase
- Transformed a labor-intensive, manual weekly reporting process by creating an efficient Tableau dashboard, enhanced data accessibility and saved 10 hours in weekly reporting

Stock Trade Society

Data Engineer, Quant Trading System

Toronto, Canada December 2020 – August 2021

- Developed a Python script using **K-means** for customer segmentation and created a **MySQL** relational database for content personalization, resulting in **7,000** extra orders
- Applied the LSTM algorithm and trained models in Python in CNCB bank data, forecasting backtest intervals and A-share stock trends, culminated in an annualized return rate of 9%

。 Memegle

Data Engineer, Memes Searching Engine

San Diego, California, USA December 2020 – August 2021

- Deployed a web crawler with **Beautiful Soup** library in Python, captured an **8TB** meme dataset,
 and used **MongoDB sharding** and **multi-threading** for efficient storage and faster data retrieval
- Incorporated Mutualist Network to identify synonyms in the meme database, surpassing traditional models by improving synonym mapping and reducing search ambiguity by 7%
- Designed a recommendation system using Collaborative Filtering technique, analyzing user interactions to suggest tailored meme content, users increased by 3000 in 7 days

SKILLS & INTEREST

- **Technical Skills**: Skilled in Python (including Pandas, Matplotlib, Keras, Pytorch, and Tensorflow), R, SQL, data visualization with Tableau and Power BI, database management, API usage, and documentation (PRD, MRD, BRD)
- · Languages: Fluent in Chinese
- Interests: Music Composer, Professional rock guitarist(Asian Tour and Music Festival)