Bingning (Icey) Xue

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Personal Website

Certificates

- AWS Cloud Practitioner
  - (expected May 2024)
- Tableau Certified Data Analyst
  - (expected Mar 2024)

Skills

- **Languages:**
  - Python ---------- 5yr
  - SQL ---------- 2yr
  - R ---------- 4yr
  - HTML ---------- 1yr
  - CSS ---------- 1yr
- **Data Visualization Tools:**
  - Tableau ---------- 1yr
  - Power BI ---------- 2yr
- **Others:**
  - Microsoft Excel ----- 6yr
  - GitHub & GitLab ----- 2yr

Expertise

- **Machine Learning**
  - Scikit-learn, TensorFlow, PyTorch, XGBoost
- **Statistical Analysis**
  - A/B Testing, Time Series
- **Big Data Analytics**
  - Hadoop, Spark, Kafka
- **Cloud Computing**
  - AWS, GCP
- **Web Scraping**
  - BeautifulSoup, Selenium, API, Regex
- **Database Management**
  - MySQL, MongoDB
- **Supply Chain Management**
  - SAP

Languages

- English
- Chinese (Mandarin)

Education

Master of Science, Business Analytics

University of California, Davis

Sep 2023 – Jun 2024 (Exp) — San Francisco, CA

- **GPA:** 3.7/4.0; **Projects:** See Personal Website
- **Coursework:** Machine Learning, Data Management, Advanced Statistics, Big Data, Cloud Computing, Supply Chain Management, Data Visualization, Data Design and Representation

Bachelor of Management, Financial Management

Fudan University

Sep 2019 – Jun 2023 — Shanghai, China

- **Coursework:** Corporate Finance, Investments, Accounting, Statistical Software – R, Mathematical Statistics, Python Programming, Data Mining: Theory and Technologies

Professional Experience

Data Scientist (Practicum Project)

Angel Flight West

Sep 2023 – Jun 2024 (Exp) — San Francisco, CA (Remote)

As part of the UC Davis MSBA, offer data solutions for aviation non-profit providing non-emergency medical transportation to enhance pilot performance prediction and operational efficiency:

- Engineered a Twofold Microtargeting Model to optimize mission offerings for pilots in weekly emails, integrated SQL-based Preference Score Calculation with Python clustering models, and improved the Email Response Rate by **20%**, advancing AFW's self-service ambition.
- Elevated the accuracy of Pilot Success Model from **82%** to **90%** through K-means Clustering and Random Forest in Python, enhancing the new volunteer pilots' future performance prediction based only on their application-level data, boosting pilot engagement.
- Extracted recent 10 years of business operation data (400K rows) using MySQL in DBeaver, utilized the CTE feature and index columns and reduced query execution time for calculating pilot-mission match scores by approximately **50%**.
- Held weekly meetings with AFW's CIO to scope new analytics initiatives; presented quarterly updates on solutions and milestones to all AFW members, driving continuous improvement.

Digital Data Intern — Digital Data & AI Team

LVMH (Shanghai) Management & Consultancy

Sep 2022 – Dec 2022 — Shanghai, China

As the assistant of the LVMH data team, contributed to enhancing sales and fostering digital transformation progress for luxury brands through data-driven insights derived from strategic data models and advanced data analysis:

- Supported the creation of 'High-Potential Algorithm' model using Random Forest in Python, aimed at forecasting customer purchase behaviors and identifying loyal clientele for Loewe, achieving an **89%** accuracy rate.
- Leveraged Python and Excel PivotTable to develop unique analytical techniques, focusing on customer profiling, omnichannel, and touchpoints to identify e-commerce transformation challenges and propose actionable solutions for Loewe, Fendi, and Fred.
- Produced **6** and presented **3** PowerPoint reports with detailed analysis output and visualizations; participated in weekly team meetings to provide updates and share insights.

Data Analytics Intern — Data System Department

XY Investments

Jun 2022 – Aug 2022 — Shanghai, China

At a newly founded quant investment firm, handled massive trading data through Python, focusing on data cleaning, formatting, and optimal storage for the Research Department's utilization:

- Decompressed, cleaned, and unified the format of point-in-time tick level stock data from 2015 (**2TB**) provided by different data sellers, wrote Python programs to convert them into minute data, and wrote checking programs to record their prices' and amounts' deviation out of certain tolerance ranges.
- Wrote shell scripts in Linux, built virtual machines, and wrote wiki in GitLab as tutorials.