

# Bingning “Icay” Xue

◆ (530) 407-9608 ◆ icyxue724@gmail.com ◆ SF, CA ◆ [LinkedIn](#) ◆ [GitHub](#) ◆ [Website](#)

## PROFILE

Master of Science in Business Analytics candidate at UC Davis

- **Specialties:** Supervised and Unsupervised Machine Learning, Statistical Exploration, Database Management, Data Visualization, Web Scraping, Supply Chain Management
- **Skills:** Python (5yr), SQL (2yr), R (4yr), Microsoft Excel (5yr), Tableau (1yr), Power BI (1yr), Regex, Shell
- **Certifications:** AWS Cloud Practitioner: IP, Tableau Certified Data Analyst: IP (expected Mar.2024)

## EDUCATION

### University of California, Davis

San Francisco, CA

Master of Science, Business Analytics (GPA 3.7/4.0)

Aug.2023 – Jun. 2024 (Expected)

- **Highlighted Coursework:** Machine Learning, Data Management, Advanced Statistics, Big Data, Cloud Computing, Supply Chain Management, Data Visualization

### Fudan University

Shanghai, China

Bachelor of Management, Financial Management

Sept. 2019 – Jun. 2023

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

## PROFESSIONAL EXPERIENCE

### Angel Flight West

San Francisco, CA (Remote)

Data Scientist, Practicum Project

Sept. 2023 – Jun. 2024 (Expected)

*As part of the UC Davis MSBA, built machine learning models for aviation non-profit providing non-emergency medical transportation to enhance pilot performance prediction and operational efficiency:*

- Improved 2 existing models and built 1 new model to enhance pilot performance prediction and operational efficiency using advanced SQL and Python-based Machine Learning models.
- Extracted, cleaned, and unified recent 10 years of business operation data (400K rows) from a data warehouse using SQL and reduced query execution time by approximately 50% by utilizing the Common Table Expression(CTE) feature.
- Improved the accuracy of Pilot Success Model from 82% to 90% using the K-means clustering and Random Forest Model to enhance the new volunteer pilots' future performance prediction based on historical data.
- Held weekly meetings with AFW's CIO to brainstorm and scope new analytic research ideas to pursue, as well as presenting and explaining data-driven insights and recommended actions.

### LVMH (Shanghai) Management & Consultancy

Shanghai, China

Digital Data Intern, Digital Data & AI Team

Sept. 2022 – Dec. 2022

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

- Assisted in establishing the 'High-Potential Algorithm' model using Random Forest in Python for predicting customers' purchase behavior and identifying loyal customers for Loewe, achieving an accuracy rate of 89%.
- Utilized Python and Excel PivotTable for data cleaning, merging, and insight generation through proper analytical techniques, conducted comprehensive customer profiling, omnichannel analysis, and touchpoints overlapping for Loewe, Fendi, and Fred using their full historical datasets, and delivered PowerPoint reports with detailed analysis output and visualizations for 6 projects.
- Conducted in-depth research on business data tools/providers (e.g., BI platforms, TikTok ISVs), analyzed their algorithm and models used in data processing to rate them for making recommendations.

### XY Investments

Shanghai, China

Data Analytics Intern, Data System Dept

Jun. 2022 – Aug. 2022

*At a newly founded quant investment firm, handled massive trading data through Linux shell scripts and 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 system, built virtual machines, and wrote wiki in GitLab as a tutorial.