

## Zheling Zhang

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### EDUCATION

#### Vanderbilt University – Data Science Institute

Nashville, TN

*Master of Science in Data Science*

May 2025

- GPA: 3.60
- Relevant Coursework: Data Cleaning and Visualization, Data Science Algorithm, Data Analysis (R Language), Probability Stat

#### University of California, Irvine

Irvine, CA

*Bachelor of Science Major: Business Information Management*

Mar 2023

- GPA: 3.44
- Selected as Dean's Honor List: Winter, Spring and Fall of 2022, and Winter 2023
- Relevant Coursework: Project Manager, Deep Learning, Machine/Data Mining, Database Management (SQL), Intermediate Python/Java, Marketing, Operation Management, Strategic Management, Accounting

### SKILLS

**Functional:** Data Analytics, Database Management, Machine Learning, Deep Learning, Business Analytics, Project Management

**Language and Tools:** Python (4+yoe), R (3+yoe), SQL (2+yoe), Java (1+yoe), Microsoft Office Suite (5+yoe)

**Framework/Library:** matplotlib, Scikit-learn, Pandas, NumPy, Streamlit, Gradio, Markdown

### EXPERIENCE

#### DIB Asset Management

Beijing, China

*Department of Technology, Analyst Assistant – Internship*

Sep - Nov 2020

- Tracked and analyzed financial data across medicine and new energy vehicle sectors, providing key insights for strategic decision-making in the dynamic market environment
- Analyzed and reported detailly on their performance directly influenced critical investment decisions based on evaluation of 50+ market funds
- Established and developed the strategic approach about investment in the new energy vehicle industry with the application of comprehensive research and analytical reporting on Elon Mask

### PROJECTS

#### Used Car Analysis (R/Python/Excel)

Irvine, CA

- Collected and tracking 3217 data of used cars around Irvine, CA on the TrueCar platform by using Octoparse
- Processed the raw data to fill the null values and reorganized data based on each characteristic, such as make, year of made, and color, etc.
- Developed system of data visualization to draw the valuable key insights of used car market around Irvine, CA by using R, matplotlib, and Excel

#### [Deep Learning for Kidney Tumor Segmentation in CT Scans](#) (scikit-learn/Jupyter Notebook)

Irvine, CA

- Developed three deep learning models, which utilized Squeeze-and-Excite, Deep Supervision, Contracting-Expanding segmentation architecture accordingly
- Evaluated model performance using metrics such as accuracy (67.90%), sensitivity (65.96%), and specificity (70.59%)

#### [Real-time Chat Application](#) (Python)

Irvine, CA

- Developed a real-time chat application in Python, leveraging socket programming for network communication, Tkinter for graphical user interfaces, and threading for concurrent client handling.
- Implemented both single and group chat functionalities, utilizing TCP/IP protocols for reliable data transmission and ensuring efficient message broadcasting across multiple clients.
- Employed object-oriented programming principles to modularize the chat application, enhancing code reusability and maintainability.

#### Analyzing and Visualizing Creative Community Survey Data for Non-Profit Initiatives (Python/Streamlit)

Nashville, TN

- Reorganized and processed 351 instances with 271 different attributed from the local non-profit initiatives
- Develop a user interface allow anyone could read analysis and visualization of the specific part of data they interested in
- Treat the qualitative and quantitative data via appropriate arbitrary disciplines to maximize the efficiency and rationality of the data analysis

### ADDITIONAL

- Language Skills: Chinese, English
- Certificate: Coursera Machine Learning