

Mengjie (Marianna) Wang

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WORK EXPERIENCE

Google, QA Analyst (Contract)

Sunnyvale; 08/2024 - 11/2024

- Validated and ensured the accuracy of election data across **3,100+** counties using **SQL** and **Google Civic Information API**, achieving **99.5%** accuracy and enhancing data reliability for government and third-party applications.
- Streamlined QA processes for Civic Information API by leveraging **SQL** and **Google Sheets**, reducing data discrepancies by **30%**, leading to a **20%** increase in Google Search tools usage.
- Validated and cross-checked election data from official sources with **Civic Information API** outputs. Delivered accurate and up-to-date election details to **2M+** users, maintaining a **95-99%** data accuracy rate and optimizing database queries for efficient retrieval of API-driven information.
- Resolved Google Map-related discrepancies between voting district boundaries, integrating geospatial data validation workflows and improving map accuracy for election-related tools, reducing resolution times by **20%**.

Upfront Energy, Data Analyst

San Francisco; 10/2023 - 08/2024

- Conducted **A/B testing** using **Python's SciPy** library to compare personalized and AI-generated email content, resulting in a **20%** improvement in response rates and a **15%** increase in overall engagement.
- Extracted and processed data from **1,000+** websites using **SQL** for **ETL processes** and automated data scraping and cleaning using **Python's BeautifulSoup** and **Pandas**, building a database of 4,700 incentive programs and maintaining **99%** data accuracy.
- Leveraged **Google Analytics** and **Google Cloud BigQuery** to analyze customer behavior and performance metrics, providing actionable insights that enhanced marketing strategies and customer engagement by **20%**.
- Created an internal task management dashboard in Trello, tracking **400+** customer projects in real time, resulting in a **25%** improvement in workflow efficiency and more informed financial decision-making.
- Designed the schema and logic for an AI-powered SaaS marketplace, by developing relational data models that supported scaling to **\$100K** in gross merchandise volume(GMV) within four months and optimized job management.

ActOne Group, Business Analyst Intern

Glendale, CA; 06/2023 - 08/2023

- Pulled data from **SQL Server** and visualized **1,000+** job placement records in **Power BI** dashboards, leading to a 12% increase in regional profitability and optimized candidate-job matching strategies.
- Automated dashboard updates using **Power Automate**, streamlining data extraction and reducing manual tasks, improved financial analysis efficiency by **25%**, saved **10** hours of manual work per week.
- Developed a Python-based resume analysis tool using **NLTK**, **Pandas**, and **scikit-learn** to identify high-frequency keywords, achieving **85%** accuracy in identifying top candidates and reducing manual screening time by **40%**.
- Analyzed job categories, candidate placement rates, and profit metrics using **Python (Pandas)** and **SQL**, contributing to a **15%** increase in successful job placements and enhancing overall matching accuracy by **18%**.

Uber (Capstone Project), Data Analyst Intern

Hong Kong; 12/2022 - 04/2023

- Identified key pricing factors through correlation analysis of **500K+** ride-hailing records using **Python**, contributing to the development of dynamic pricing strategies that increased peak-hour revenue by **8%** with the team.
- Cleaned and processed NYC Taxi and Limousine Commission data (**11M+ trips**) and integrated weather data, reducing data errors by **25%** and improving consistency across key features like pickup times and fare details.
- Developed **K-means clustering** models to segment high-net-worth customers, enabling more targeted marketing and pricing strategies.
- Built a daily trip volume prediction tool using **XGBoost**, leading to more efficient dispatch operations and better resource allocation during peak hours.
- Visualized high-demand areas and weather impacts on maps using **Python's Matplotlib** and **Seaborn**, optimizing driver deployment, reducing idle time and pricing adjustments during adverse weather conditions.

EDUCATION

University of California-Berkeley

08/2022 - 08/2023

Master of Analytics, Department of Industrial Engineering & Operations Research - **GPA: 3.89/4.0**

University of California-Irvine

09/2019 - 06/ 2022

Bachelor of Arts, Major in Quantitative Economics, Minor in Mathematics - **GPA: 3.97/4.0**

CERTIFICATE & SKILLS

Programming Languages & Tools: Python (Pandas, NumPy, Matplotlib, Scikit-Learn), R, SQL (MySQL), MATLAB, Excel (VLOOKUP), STATA, AMPL, Power BI (Power Query), Tableau, Google Cloud, BigQuery

Methodologies: Machine Learning, A/B Testing, Data Visualization, Statistical Analysis, Natural Language Processing

Certificate: Google Business Intelligence Professional Certificate