Mengjie (Marianna) Wang

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WORK EXPERIENCE

Google, QA Analyst (Contract) *Sunnyvale;* 08/2024 - 11/2024

- Analyzed and validated election data across **50** states, covering **3,100+** counties, achieving **99.5%** accuracy in Google Maps for voting locations, by using VLOOKUP in Google Sheets, reducing user-reported errors by **25%**.
- Conducted QA testing for high-visibility election features using SQL queries, reducing data discrepancies by **30%** and enhancing public access to voting information, leading to a **20%** increase in Google Search tools usage.
- Validated and cross-checked election data from official sources using Google Sheets and SQL queries, ensuring Google Search tools provided accurate results to **2M+** users, maintaining a **95-99%** data accuracy rate.
- Resolved Google map-related discrepancies between voting district boundaries and user-reported issues by implementing data validation processes with cross-functional teams, improving resolution times by **20%**.

Upfront Energy, Data Analyst *San Francisco;* 10/2023 - 08/2024

- 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.
- Developed and maintained Tableau dashboards for financial metrics and rebate utilization insights, improving customer engagement by **20%** and increasing rebate utilization by **30%.**
- 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, building a database of 4,700 incentive programs and identifying over $8.5M in monthly rebates.
- Automated data scraping and cleaning using Python's BeautifulSoup, Pandas, along with Retool and Zapier for workflow automation, maintaining **99%** data accuracy and reducing search times for clean energy incentives by **40%.**

ActOne Group, Business Analyst Intern *Glendale;* 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 (Hong Kong), Data Analyst Intern *Remote;* 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, contributing to a **5%** revenue boost through personalized marketing and pricing strategies with the team.
- Built a daily trip volume prediction tool using XGBoost, improving dispatch accuracy by **20%** and increasing the number of rides accepted during peak hours by **15%.**
- Visualized high-demand areas and weather impacts on maps using Python's Matplotlib and Seaborn, optimizing driver deployment, reducing idle time by **18%**, and increasing ride prices by 8% during inclement weather.

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