MICHELLE (XIAOYUN) WANG

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Data Scientist with 2+ Yoe Expert in SQL, Python, Azure/AWS Cloud Database

PROFESSIONAL EXPERIENCE

Xenon Health   Oct 2023 – Present
Data Scientist   *Miami, FL*
- Developed **Azure**-based **PostgreSQL database** and implemented **Python ETL pipelines** for extracting data from multiple sources, including NextGen Healthcare databases.
- **Automated** daily updates to the SQL database using **Linux Crontab** on Azure Instance, ensuring data integrity and timeliness.
- Engineered pipelines for monthly and weekly reporting, utilizing **Power BI** and **Azure** for visualization, resulting in a weekly time savings of 10 hours per team member.
- Collaborated cross-functionally to communicate crucial information to stakeholders, proposing relevant **metrics** for measurement.
- Spearheaded **supervised machine learning** to predict revenue trends for new sites, enhancing decision-making capabilities.

Triangle J Council of Governments   July 2023 – Apr 2024
Modeling Scientist   *Durham, NC*
- Implemented **model optimization** techniques to **predict** travel time liability, resulting in an 18% increase in accuracy.
- Calculated metrics to measure the level of service for various road segments, utilizing **Python** for **batch processing** and process automated analysis of unstructured data.
- Published **online visualizations** to map results, enhancing accessibility and facilitating understanding for non-technical audiences.
- Implemented rigorous **Quality Assurance/Quality Control** (QA/QC) practices, verifying and validating 2000+ data points to ensure data integrity and precision.

Wells Fargo   Feb 2023 – May 2023
Data Scientist (Capstone Project)   *Durham, NC*
- Elevated data management efficiency and accessibility through **AWS Cloud RDS** (Relational Databases). Employed NLP techniques (VADER, Bag-of-words) to analyze ESG reports, yielding a nuanced comprehension of data and enabling more comprehensive insights.
- Amplified business intelligence capabilities by architecting a robust **ETL** pipeline using **SQL** queries and **Python** scripts, ensuring seamless data extraction, transformation, and loading.
- Spearheaded the development of key **ESG** performance metrics and risk indicators, utilizing **Tableau** to create interactive dashboards. This advancement amplified visibility into ESG performance, fostering data-driven decision-making for Automation Reporting.

Tencent   June 2021 – Aug 2021
Data Scientist (Internship)   *Shanghai, China*
- Developed visual reporting using **Power BI** to analyze and interpret 85K+ pieces of operational data from 335 cities across 22 digital industries, delivering a comprehensive business trends overview, aiding agile and data-driven management decisions.
- Co-authored the 2021 "Cloud + AI" **White Paper**, conducting extensive analysis across policy, technology, and applications. Provided real-time insights on industry trends and implications.
- Cultivated cross-departmental cooperation. Summarized the discussions and produced and refined 80+ presentation slides for the 2021 Tencent Global Digital Ecosystem Summit, resulting in increased utilization and successful partnership outcomes.

EDUCATION

Duke University, Fuqua School of Business   July 2022 – May 2023
Master of Science in Quantitative Management (MQM), Business Analytics   *Durham, NC*
- **Tutor & Grader** for DECISION 610W: Probability and Statistics (2022 Fall), Applied Probability & Statistics (2023 Spring)
- Coursework Highlight: Managing Operational and Informational Risks, Data Science in Business (**Supervised & Unsupervised Machine Learning**), Data Infrastructure (**SQL**), Data Visualization (**Tableau**), Decision Analytics and Modeling

Fudan University   Sept 2018 – Jun 2022
Bachelor of Laws (LL.B.), International Politics   *Shanghai, China*
- Scholarship for Outstanding Student (top 5% students, 1st prize); Graduate Scholarship (2022)
- Coursework Highlight: Data Analysis (**Python**), Quantitative Research Methods (**R, STATA**), International Political Economics

SKILLS

Programming: C++/C, Python, SQL, R, Git, Tableau, Power BI, PostgreSQL, MySQL, MariaDB, Excel (Pivot Table, VBA)
Machine Learning and Data Mining: Statistics, Supervised/Unsupervised Learnings, Model Optimization, Monte Carlo Method
Cloud Platform: Azure Cloud Service, AWS Cloud Service (AWS Certified Cloud Practitioner, April 2023)