Sue Yang

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SUMMARY

Result driven data scientist with expertise in SQL, Python, and Power BI. Strong background in financial, KPI analysis, and predictive modeling to drive business decisions. Experience in building data pipelines, optimizing workflows, and delivering actionable business insights.

WORK EXPERIENCE

GForce Life Sciences — Chicago, IL
Senior Data Operations Analyst — Dec 2024 - Present

- Led cross-functional teams to analyze over $10M in revenue impact using **SQL and Power BI,** driving ROI-focused business improvements and prioritization
- Built automated **ETL processes** and **data reporting** by developing **Python and SQL** , improving data availability for performance analytics, and reducing validation time by 50%
- Manage software and IT vendors and perform evaluations on alternative tech tools on the market

GForce Life Sciences — Chicago, IL
Data Analyst — Dec 2021 – Dec 2024

- Conducted **A/B tests** on marketing emails, improving click-through rates by 15%; Designed experiment setup and statistical analysis to optimize content and drive user engagement on website
- Tracked and analyzed key success metrics such as deliver rate, open, and bounce rate. Transferred insights into **visual presentations**
- Developed interactive **Power BI dashboards** tracking key recruiting performance and customer engagement metrics, enabling leadership to make data-driven decisions

Habits At Work — Chicago, IL
Data Analytics Operations Manager — Mar 2020 - Dec 2021

- Conducted **budget analysis** for speaking and training programs using statistical models
- Designed and automated **business workflows** based on an agile environment; Collaborated on client onboarding product delivery

EDUCATION

DePaul University — Chicago, IL
Master of Science in Data Science — Expected Dec 2025
Courses: Mining big data (AWS) ; Advanced machine learning and deep learning ; Data Visualization (Tableau)

University of International Business and Economics — Beijing, China
Bachelor of Management in Economics Affairs
Courses: Microeconomics; Linear algebra, Business management

PROJECTS

Prediction of Diabetic Population using Linear Regression| R

- Performed **exploratory data analysis** (EDA) and principal factor analysis on 3K+ healthcare records including socioeconomic factors. Implemented multiple **regression techniques** (OLS, Ridge, LASSO) in R for diabetes population prediction. Evaluated performance on RMSE and selected high impact features

Song Recommendation System| Python

- Developed a song recommendation system using **TF-IDF** for content-based filtering and **information retrieval**. Built and evaluated user similarity models on 100K records from the Million Song Dataset, optimizing recommendations with precision-recall trade-offs. Designed a hit rate metric to measure accuracy

TECHNICAL SKILLS

Python(Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Seaborn) **SQL**(PostgreSQL, MySQL, AWS Athena), **A/B Testing** (Statsmodels, Scipy), **Data Visualization**(Tableau, PowerBI, DataRails), **CRM**(JIRA, Salesforce) **Machine Learning**(Linear/Logistic Regression, Random Forest, XGBoost, CatBoost, SVM, K-Means, KNN, NLP)

CERTIFICATIONS

Harvard Business School Online | CORe Business Analytics