Suzy Tang

+61 478543325 | email: suzytang5544@gmail.com | LinkedIn

Summary

- Experienced Data Scientist in **AI Product** (Huawei) and **Quantitative Finance** (HSBC), currently deepening expertise in UTS's Master of Quantitative Finance.
- Proven ability to translate complex data into actionable business outcomes, optimize operations, and drive revenue growth (quantified achievements below).

Skills

- **Languages**: Python (Pandas, NumPy, Matplotlib, Seaborn, SciPy, Scikit-learn, TensorFlow), R, PySpark
- **Data & ML**: ETL Pipelines, Data Cleansing, Data Governance, Regression, Classification, Clustering, A/B Testing, Time Series Analysis, Predictive Modeling
- **Tools**: Tableau, Power BI, Snowflake, Bloomberg Terminal, AWS, Hadoop, Hive, Spark

Work Experience

University of Technology Sydney   Aug 2025 - Present   **Research Assistant**

Technologies: Python (scikit-learn, TensorFlow, pandas),Statistical Modeling, Time Series Analysis

Achievement:

- Developed ensemble machine learning models (XGBoost, Random Forest, Neural Networks) for time series forecasting, processing data points
- Designed and implemented feature engineering pipelines using alternative data sources and advanced statistical techniques
- Applied econometric methods including regression analysis, causal inference, and hypothesis testing
- Built automated data processing systems using Python reducing manual preprocessing time by 70%
- Conducted literature review and comparative analysis of state-of-the-art predictive modeling approaches

Cancer Council NSW, Sydney   May 2025 - Aug 2025   **Data Specialist**

Technologies: Python (Pandas, NumPy), Power BI, SQL, Azure, Boomi

Achievement:

- Reduced data mismatch rate by 40% by designing and implementing robust data reconciliation workflows and processes across multiple departments.
- Improved reporting accuracy and compliance by 25% through the standardization of business and service data models and developing interactive Power BI dashboards.
- Led seamless migration of 5+ legacy data systems to Azure-based infrastructure, achieving zero critical data loss and uninterrupted business operations.

- Accelerated ETL processes by 30% by optimizing Python scripts and Boomi workflows for large-scale data integration and pipeline maintenance.

- Enhanced executive decision-making efficiency by 20% through the design and deployment of dynamic Power BI dashboards with real-time insights and KPI reports.

- Established cross-team data quality standards, fostering improved data literacy and data-driven collaboration across the organization.

HSBC, Hongkong   Jan 2021 - Jun 2024   **Senior Quant Analyst**

Technologies: Python (NumPy, SciPy, Scikit-learn), SQL, VBA, Tableau, Jupyter, Git, Bloomberg Terminal, SWIFT API

Achievement:

- Engineered multi-variable forecasting models (spread, volatility, liquidity) with dynamic optimization, improving execution accuracy by 15% and mitigating real-time pricing risk across high-frequency APAC markets.

- Analyzed over **2 million** daily transactions and developed pricing algorithms that directly generated $2.5M in additional revenue for APAC FX trading operations.

- Personalized pricing strategies based on customer segments, contributing to a 22% increase in client retention and higher transaction volume from key clients.

- Automated SWIFT-based reconciliation pipelines, reducing pricing-related error rates by 45% and improving processing speed for high-value transactions by 4x.

- Developed real-time FX KPI dashboards in Tableau for senior leadership, enabling 20% faster response time in trading decisions.

- Awarded the HSBC APAC FinTech Innovation Award (2023) for outstanding contributions to pricing automation, predictive modeling, and client-centric quantitative strategy design.

Huawei, China   Jan 2018 - May 2021   **Data Scientist**

Technologies: Python, SQL, TensorFlow, Kubernetes, Spark, Hadoop, Hive, Airflow, Tableau, Linux

Achievement:

- Built and deployed a real-time NLP engine (**accuracy >95%, latency <0.8s**) using TensorFlow and Kubernetes, enabling intelligent pricing decisions and supporting multiple Huawei product lines.

- Led pricing strategy optimization using A/B testing, resulting in a 12% increase in user conversion and generating $2M in annual cost savings via automated decision-making.

- Competed directly with iFlyTek in the domestic NLP market, successfully securing internal adoption across multilingual customer-facing platforms.

- Developed automated Tableau dashboards for performance monitoring, saving 50+ hours of manual reporting time monthly and enhancing visibility into product KPIs.

- Enhanced pricing model effectiveness by 40% through iterative experimentation and behavioral analysis across customer segments and regional differences.

- Oversaw the full lifecycle of AI model delivery, from data pipeline construction to production deployment, significantly boosting model governance and operational maturity.

Nestle, China   Sep 2016 - Jan 2018   **Data Analyst**

Technologies: Python, SQL, Excel, Tableau, Hadoop

Achievement:

- Performed end-to-end ETL processes on large volumes of sales and logistics data, ensuring clean and reliable datasets for monthly executive reporting.
- Reduced manual reporting time by 20% by automating recurring data workflows using SQL scripts and scheduled queries.
- Created standardized operational dashboards and Excel-based reports that improved service response time and highlighted key customer satisfaction trends.
- Delivered data quality improvements across sales pipelines, directly supporting the development of customer segmentation and pricing tiers.

Education

2024.10 - 2026.12	**University of Technology Sydney**
	Master of Quantitative Finance
2011.09 - 2015.07	**Ocean University of China**
	Bachelor of Commerce