Nolan Tang

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EDUCATION

WASHINGTON UNIVERSITY IN ST LOUIS, OLIN BUSINESS SCHOOL, St. Louis, MO

December 2024

Master of Science in Business Analytics - Supply Chain

Relevant Courses: R and Statistics Foundation, Database Design and SQL, Big Data and Cloud Computing, Machine Learning Tools for Prediction of Business Outcomes, A/B Testing in Business and Social Science, Data Visualization for Business Insights with Tableau

FUDAN UNIVERSITY, Shanghai, China **Bachelor of Economics**

June 2023

Awards Fudan Alumni Association Scholarship

Relevant Courses: Money and Banking, Asset Pricing, Accounting II

EXPERIENCE

VoiceBotics AI, Remote

AI Marketing Automation Intern

Mar 2025 - May 2025 Real-time Dashboard: Developed a real-time business intelligence dashboard in Tableau to visualize local market trends,

- automated data collection via web scraping, optimized SQL databases for efficient querying, and engineered a scalable data pipeline using Kafka to ensure seamless data flow. · Data Management & Analysis: Applied TensorFlow, Keras and other deep learning methods in building statistic models with
- Python for data prediction targeted on toB sales growth, generating actionable insights for segment marketing. Custom Product Management: Developed MVP of toB advertising software with React to enhance AI-driven functionalities and automation capabilities, enlarging the potential client base to estimated 130% and contributing to revenue growth.

Premier Strategy Consulting, St. Louis, MO

Data Scientist & Marketing Intern

June 2024 - August 2024

- Product Development(gpt-4o): Deducted prompt engineering to develop the MVP of an end-to-end data analysis product with LongChain. Independently complete 1st stage product testing by filtering suitable public e-commerce industry datasets and recording BRD for product-related problems.
- Marketing Department(Content Marketing): Actively forming connection network with potential company clients through effective communication on 3+ STL World Cup Competitions and updated LinkedIn content on a weekly basis. Developed 2-3 implementable update strategies, including both graphic updates and video format, achieving the result that each post achieved over 100 impressions.

PROJECTS/COMPETITIONS

Learning Agency Lab & Vanderbilt University - Team Leader(Bronze Medal)

- Ensemble Modeling (Python): Specify and address the industry challenge of evaluation in Al-automated grading tools in education through developing an ensemble model using SpaCy embeddings and TF-IDF vectorization. Enhancing the model's reliability in assessing diverse student-written content by a 15% improvement in classification accuracy.
- Machine Learning Optimization (LightGBM & CatBoost): Applied hyperparameter tuning using Hyperopt, optimizing LightGBM and CatBoost models for Al-generated text detection. Enhanced model performance by refining learning rates and thresholds, achieving a cross-validation AUC score of 0.9983, representing a 10% increase over baseline models.
- Model Improvement (TF-IDF): Engineered custom Python functions to compute variance, mean, and standard deviation for sparse matrices generated by TF-IDF, leading to a 12% increase in interpretability and a 7% improvement in classification accuracy. These improvements ensured more reliable insights and enhanced the model's predictive power.

Research Project: Automation's Impact on Aging & Innovation

- · Data Analysis & Modeling: Conducted regression and Difference-in-Differences (DID) analysis with STATA on industrylevel datasets (IFR robotics, China Statistical Yearbook) to quantify automation's mitigating effect on aging-related labor scarcity, revealing a 96% innovation boost in automated sectors. Applied SQL for data aggregation and Excel/Python for statistical modeling.
- Policy-Relevant Insights: Identified how automation offsets aging's negative impact on innovation (e.g., -34.3% patent decline without automation), providing actionable parallels for housing labor shortages and operational efficiency in affordable housing programs.
- · Visualization & Reporting: Designed Tableau dashboards to visualize automation trends and patent growth, supporting data-driven decision-making. Streamlined reporting with robustness checks (e.g., composite innovation indices) to ensure data reliability—mirroring HDC's need for accurate arrears/vacancy tracking.