Nolan Tang

LinkedIn|636-341-7207|nolantang2023@gmail.com

EDUCATION

WASHINGTON UNIVERSITY IN ST LOUIS, OLIN BUSINESS SCHOOL   **St. Louis, MO**
Aug 2023 – Dec 2024

Master of Science in Business Analytics - Supply Chain Track

- **Coursework:** R and Statistics, Database Design, Big Data, Machine Learning, A/B Testing, Data Visualization

FUDAN UNIVERSITY   **Shanghai, China**
Sep 2019 – Jun 2023

Bachelor of Economics

- **Leadership & Honors:** Fudan Alumni Association Scholarship

TECHNICAL SKILLS

- **Programming & Tools:** Python, R, C++, SAS, Git, AWS, Spark, SPSS, Tableau, PowerBI, Excel
- **Database:** SQL, MySQL, SQL Server, MongoDB, PostgreSQL, Hadoop, Hive
- **Analytics:** A/B Testing, Root Cause Analysis, Time-series Analysis, Machine Learning

PROFESSIONAL EXPERIENCE

VoiceBotics AI   **Miami, FL**
Data Scientist   Mar 2025 - May 2025

- Designed and launched a real-time Tableau dashboard that applies AI agent to recommend optimal side hustles aligning users' location, skills, industry preferences, income goals, preferences, etc, leading to a **4%** increase in user engagement and an estimated **$50K+** growth in monthly revenue.
- Built a Kafka-based data pipeline to automate daily scraping of side-hustle job listings via BeautifulSoup, reducing data latency by **60%** and supported **50K+** new entries/day, improving job freshness and boosting user retention by estimated **12%**.

Premier Strategy Consulting   **St. Louis, MO**
Data Scientist   Jun 2024 - Aug 2024

- Built LLM-based pipeline for a proprietary B2B data analytics AI agent for end-to-end ML development on automating problem framing, SQL generation for data/features, and Python model execution on a healthcare database for estimating patient follow-up rate, which reduced data-to-insight cycles by **75%**.
- Developed and executed diverse strategies for LinkedIn daily content creation, including **3** pillars - AI-powered educational videos, prompt guides, and academic paper summaries, consistently achieving **100+** impressions/day to boost brand visibility and attract potential clients.

Fudan Lab for China Development Studies, FLCDS   **Shanghai, China**
Data Analyst, Research   Feb 2023 - May 2023

- Conducted Multi-variable regression and Difference-in-Differences (DID) analysis with STATA on industry level 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.
- 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.

Tencent, Smart Retail   **Shanghai, China**
Data Analyst   Aug 2022 - Jan 2023

- Developed a dynamic geographic customer segmentation dashboard from **10TB+** offline store and **10M+** VIP client data (location, age, spending, marital status, purchase habits). This empowered ANTA to target younger demographics, contributing to **9.3%** revenue growth (2023) and substantial youth digital engagement increase.
- Conducted Spark-based ETL for ANTA's multi-source datasets (**500GB** daily), streamlining their data pipeline. This accelerated data availability for analysis by up to **30%**, crucial for strategic pivots to capture younger demographics.

PROJECT EXPERIENCE

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

- Developed an ensemble model using SpaCy embeddings and TF-IDF vectorization to specify and address the industry challenge of evaluation in AI-automated grading tools in education, enhancing the model's reliability in assessing diverse student-written content by a **15%** accuracy increase.
- Engineered Python functions to compute variance, mean, and standard deviation for sparse TF-IDF matrices from student assignments, which provided granular insights into linguistic patterns differentiating AI from human writing, increasing interpretability by **12%** and classification accuracy by **7%**.