Ethan Miao

(323)797-7046 LOS ANGELES, CA yijunmiao287@gmail.com

EDUCATION

MS, Technology Management University of California, Santa Barbara Sep 2024 - Jun 2025 BS, Electronic Information Engineering South China Normal University

Sep 2020 - Jun 2024

WORKING EXPERIENCE

Business Analyst Apr 2025 - Jun 2025 **Eth Tech**

Los Angeles, CA

- Participated in a cross-functional project to improve loan eligibility automation, focusing on segmenting applicants based on income, credit history, and demographic data to support targeted customer outreach
- Conducted end-to-end data analysis lifecycle: defined problem statement, performed EDA, and handled missing values and outliers to ensure data quality and reliability
- Collaborated with senior analysts to perform univariate and bivariate analysis, identifying key variables that influence loan approval outcomes
- Communicated findings through visual dashboards and slide presentations, helping product and risk management teams tailor offerings to high-potential customer segments
- Improved internal documentation of model assumptions, customer profiles, and data workflows, enabling smoother handover and reproducibility for future development

Market Data Analyst **Deckers Outdoor Corporation**

Jan 2025 - Jun 2025

Goleta, CA

- Scraped and cleaned ~10K footwear SKUs across Amazon, Flipkart, and Myntra using Python (BeautifulSoup, pandas, NumPy), and automated data pipelines with Selenium to enable scalable analysis
- Developed two interactive Tableau dashboards to visualize post-COVID brand-level pricing trends, discounting strategies, and sales fluctuations across metro Indian cities, supporting strategic decision-making
- Defined and monitored KPIs such as average discount rate, conversion rate, and CAC in collaboration with marketing and brand teams, enabling real-time campaign performance tracking
- Conducted break-even analysis on celebrity endorsement campaigns by merging ad spend and sales data, calculating an ROI payback period of 29 weeks
- Built linear regression models in Python to estimate regional price elasticity, revealing 22% higher demand sensitivity in Tier-2 cities for Nike products through EDA and segmented modeling
- Performed consumer segmentation using scikit-learn to cluster users by geography, age, and purchase behavior, identifying regional demand patterns and informing localized pricing and youth-focused campaigns

Executive Assistant LG Display Co., Ltd

Jan 2024 – May 2024

Guangzhou, China

- Provided executive-level analytical support within the Government Affairs division, synthesizing competitive intelligence and policy updates across 3 regions and ensuring accurate documentation and improving product launch reporting timelines by
- Assisted with preparation of weekly dashboards and presentations for leadership, highlighting customer insights, campaign performance, and competitor movements
- Conducted preliminary analysis of display market trends (Excel, Tableau), supporting data-driven decision-making on OLED product positioning for Q2-Q4 2024

SELECTED PROJECTS

NFL Sports Betting Analytics Project

Oct 2024 - Dec 2024

- Analyzed historical NFL scores and betting odds to uncover seasonal inefficiencies and inform data-driven wagering strategies.
- Built predictive models (Logistic Regression, Random Forest, Gradient Boosting) using engineered game context features (weather, playoff status), achieving 78% accuracy and highlighting key predictive factors like team identity and location.
- Developed a scalable pipeline for real-time model updates with 2025 data, enabling continuous refinement and long-term ROI optimization.

SnapSpace – AI Web Platform for Furniture Discovery

Jan 2025 - Mar 2025

- Contributed to SnapSpace's monetization strategy by designing a hybrid model of premium subscriptions and commission-based
- Researched competitor pricing and forecasted user conversion rates to support tiered pricing and revenue projections.
- Collaborated on product feature planning, user flow design, and development of business model pitch materials.

SUMMARY OF QUALIFICATIONS

- Statistics and Machine Learning: General Linear Model, Model Selection & Regularization (LASSO, Ridge, and Elastic net), Survival Analysis, Structure Equation Modeling, Time Series Analysis
- Data Intelligence: Tableau, Power BI, Excel, Data Pipeline, ETL
- Data Analytics: SQL (Snowflake, MySQL), R, Python (pandas, NumPy, Matplotlib), Hadoop, Spark
- Language: English, Mandarin, Cantonese