

SUE HUYNH

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EDUCATION

Brown University , Masters' in Data Science	Expected 2028
• <i>Coursework</i> : Hands-on Data Science, Data Engineering, Machine Learning	
University of Cincinnati , Bachelor's in Business Analytics & Marketing	Graduated 2023
• <i>Honors</i> : Dean's List, Magna Cum Laude, GPA: 3.9/4.0	
• <i>Coursework</i> : Database Management, Data Mining and Analysis, Forecasting and Risk Analysis, Decision Models	

SKILLS

Programming	Python (scikit-learn, PyTorch, EconML, TransformerLens), SQL, R
Data Science	Causal Inference, A/B Testing, Statistical Modeling, MLOps (Git, W&B, MLflow, pytest)

WORK EXPERIENCE

Marketing Analyst <i>The Basement</i>	Jun 2023 - May 2026 <i>Indianapolis, IN</i>
• Developed the agency's first Marketing Mix Model for Fortune 100 clients, boosting ROAS (return on ad spend) for a \$2M+ media investment and helping them reach their 3-year goals in just 18 months.	
• Generated a record-breaking 28% YoY increase in online and on-campus applications for a top university by conducting creative fatigue analysis and landing page diagnostics in Python.	
• Cut operational costs by 30% by building 20+ performance dashboards in Google Looker Studio and Salesforce.	
Data Analyst <i>STEAM for Vietnam Foundation</i>	Nov 2020 - May 2026 <i>Burlingame, CA</i>
• Developed a boosting classifier that detects at-risk students, enabling adaptive email interventions to sustain attendance.	
• Drove 200K+ course registrations by developing marketing dashboards in Looker Studio and conducting bi-weekly analyses.	
• Boosted learner engagement time by 50% by analyzing user-feature network and guiding key platform improvements.	

PROJECTS

Uplift Modeling for User Targeting	Jun 2026
• Built heterogeneous treatment effect models (Causal Forest, X/T/S-Learner) on Criteo Uplift dataset to translate outputs into a budget-constrained targeting policy, benchmarking against propensity-based targeting with Qini curve analysis.	
GPT-2 Development & Mechanistic Interpretation	May 2026
• Built a 2-layer GPT-2 decoder transformer from scratch and applied logit lens, attention pattern analysis, and activation patching (TransformerLens) to trace compositional generalization failures on the SCAN benchmark, isolating two failure mechanisms, Layer 0 Dissolution and Layer 1 Overwrite, accounting for 60% and 40% of errors respectively.	
T5 Compositional Failure Analysis	Apr 2026
• Conducted systematic error analysis on T5 outputs for SCAN compositional generalization tasks, revealing that 80% of failures were syntactic rather than semantic and isolating modifier co-occurrence as the driver of "around" keyword failures.	
LLM Benchmark Evaluation	Mar 2026
• Designed a comparative evaluation framework on summarization quality and latency to benchmark Llama-3.2-3B against Mistral-Nemo-12B on news summarization, finding a 23x latency cost on Mistral for only a 0.07 ROUGE-L gain.	

AWARDS

First Prize Winner , <i>AutoScientist Challenge: Bring Frontier AI to the World</i>	Jul 2026
• Fine-tune Marketing-Mixtral-8x7B and Marketing-Llama-3.3-70B with self-curated 13K+ rows of instruction data to achieving 87%+ win rates against base models and deploying the top model as a live AI agent via Gradio on HuggingFace Spaces.	
Top 5 Finalist , <i>McKinsey Digital Hackathon: Hacking for a Sustainable and Inclusive Tomorrow</i>	Jun 2023
• Consulted on AI strategies to globalize edtech for Code.org, the world's leading K-12 computer science education non-profit.	

COMMUNITY ENGAGEMENT

NEO Initiative, Analyst	2022 - 2023
• Boosted sales from the young adult segment by 300% for a local Black-owned business by leading omnichannel analysis.	
Lindner College Women in Business, Program Coordinator	2019 - 2023
• Empowered 6K+ women in business through career development workshops, executive panels, and networking events.	