**NAM TRAN**

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**EDUCATION**

**Wake Forest University, M.S. in Business Analytics |** GPA: 3.93 *May 2024*

**SUNY New Paltz, B.S. in Business Analytics and Finance |** GPA: 4.0 (Major) | 3.88 (Cumulative) *May 2023*

**Honors:** Outstanding Graduate Award, Outstanding Service Award, SOB Academic Award, National Test High Achiever Award

**AREAS OF EXPERTISE**

Database Design | Data Cleaning | Machine Learning | Deep Learning | Hyperparameter Tuning | Time Series Analysis/ Forecasting | Cluster Analysis | Data Visualization | Cloud Computing | Generative AI | Computer Vision | Financial Analysis | Risk Modeling

**TECHNICAL SKILLS**

***Technical Tools:*** Excel, R, SAS, Python, Tableau, Power BI, SQL, Big Query, Neo4j, Alteryx, HTML, Git, Docker, Powershell/Bash

***Machine Learning Frameworks:*** Supervised/Unsupervised/Reinforcement Learning, Scikit-learn, Tidymodels, TensorFlow, PyTorch

***Big Data Technologies:*** AWS, Google Cloud, Azure, OpenAI, Hugging Face, LangChain, LlamaIndex, Pinecone, Redis

***Professional Certifications*:** Tableau/Advanced SQL for Data Scientists, Machine Learning with AWS, Google Cloud Gen AI Learning Path, Microsoft Azure AI Vision, TensorFlow Developer Specialization, PyTorch and Deep Learning, Bloomberg Market Concepts

**PROJECT EXPERIENCE**

**Visual Question Answering (VQA):** [Link](https://namtran.streamlit.app/)*March 2024*

* Developed a VQA app powered by the BLIP model, enabling users ask questions about images and receive answers

*Skills Utilized:* Generative AI, Image Processing, Version control (GitHub), Docker, GUI development (Streamlit), App deployment

**Multimodal Generative AI:** [Link](https://huggingface.co/spaces/trannn23/multimodal_model) *August 2023*

* Streamlined 3 top ranked LLMs and created an UI using Gradio, deployed on Hugging Face space
* This combined model acts as a pipeline for both image-to-text and text-to-image tasks. It analyzes images to generate descriptive captions and uses text descriptions to create corresponding images

*Skills Utilized:* Computer Vision, Generative AI, Image processing, API integration, UI development (Gradio)

**Advanced Facial Detection System for Classroom Attendance:** [Link](https://drive.google.com/drive/folders/1FqmZqPGOR3zQV8rce4_avN4CDVoVSo2F)*December 2023*

* Achieved a 35% recall increase, and 40% confidence boost in facial recognition, measured by direct comparison and classroom context evaluation, by integrating Amazon Rekognition API and streamlining image storage on Amazon S3

*Skills Utilized:* Python, AWS, Computer Vision, Image processing, Data Collection, Data Warehousing, ETL, API integration

**Other Projects**: [*github.com/namtran6701*](https://github.com/namtran6701)

**PROFESSIONAL EXPERIENCE**

*Graduate Consultant |* **Sales Factory** | Greensboro, NC *January 2024 – Present*

* Achieved a 50% reduction in labor hours, measured by operational budget analysis, by implementing a RAG system to generate tailored news briefs in the company’s specific template based on real-time database updates
* Constructed the chatbot by developing a data pipeline and model infrastructure with LlamaIndex and LangChain, ensuring seamless data extraction and integration with LLMs (GPT-4, Claude 3) for fast, accurate, and relevant responses
* Reduced monthly operational costs by 45%+ through the identification and implementation of open-source solutions (Hugging Face Models Integration) within the Azure infrastructure, contributing to overall cost - effectiveness and efficiency

*Skills Utilized:* Azure, NLP (SpaCy, Llama Parse), LLMOps, Vector Database, SQL (Azure SQL, Cosmos DB), GUI (Streamlit)

*Graduate Consultant* **| SAS** | Cary, NC *September 2023 – Present*

* Led a 5-graduate team to a 66% improvement in default customer identification and a 15% boost in model classification (measured by recall and ROC-AUC) by integrating time-to-event analyses, macroeconomic data, and XGBoost model
* Built an end-to-end ML pipeline by integrating data preprocessing, feature engineering, model training, and evaluation stages
* Deployed the optimized model on AWS SageMaker, guaranteeing low-latency predictions and seamless data integration

*Skills Utilized:* ML pipeline, Hyperparameter tuning, Model testing, Feature engineering, Visualization, Leadership, Communication

**SUNY New Paltz** | New Paltz, NY

*Research Assistant, School of Business May 2022 – May 2023*

* Improved stock selection for the School Investment Fund, measured by 2% annual outperformance of the S&P 500, by developing pricing models using the Center for Research in Securities Prices (CRSP) API
* Optimized portfolio risk management by conducting value at risk and expected shortfall analysis
* Presented analytical findings at academic forums (UMass Amherst PhD seminar, Economic and Finance Annual Meeting)

*Statistics Teaching Assistant, School of Business October 2022 – May 2023*

* Awarded the Outstanding Service Award by the School of Business for exceptional contributions to student success, including boosting course pass rates by 20% through individualized support and tailored training
* Elevated student confidence in applying statistical concepts by 75% by designing materials that simplified complex topics

*Skills Utilized:* Visualization (Tableau), Portfolio optimization, Financial Modeling (DCF, LBO), Monte Carlo Simulation