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: 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: 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: shorturl.at/fkK13)* *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*

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