UYEN NGUYEN

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Education

University of South Florida (USF)   **May 2026 (Expected)**
Bachelor of Arts in Statistics, Economics. GPA: 3.98/4.00   *Tampa, FL*

Technical Skills

Languages: SQL, Python, R, Matlab
Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, PySpark, PyTorch, Tensorflow, ggplot2, caret
Tools: Power BI, Tableau, Excel, Azure, Jupyter Notebook, SQL Server, MySQL, RStudio, MS Fabric, Power Automate
Techniques: Statistical Modeling, Hypothesis Testing, EDA, Data Visualization, Machine Learning (Classification, Regression, Clustering, Random Forest, XGBoost), PCA, Time Series Forecasting

Working Experience

ComEd (An Exelon Company)   **June 2024 - August 2024**
Data Analyst Intern   *Joliet, IL*
- Designed employee productivity report using **Power BI** to track work performance over time, worked with systems managers to ensure data integrity and governance, leading to **$25,000** in savings
- Created **SQL** scripts in **Microsoft Fabric** to manipulate **100k** records from 3 datasets to gather employee work information, optimizing operational efficiency by **35%**
- Built **Power Automate** solutions to automate **10000** system access requests, reducing human involvement by **90%**

SPACHeS Lab, USF   **March 2023 - Present**
Research Assistant   *Tampa, IL*
- Developed **Stepwise** and **Lasso regression** models for Obstructive Sleep Apnea (OSA) detection through collaborating with **5 researchers**, improving research progress by **30%**
- Performed feature engineering, data processing and analysis (**PCA, K-means Clustering**) to determine OSA patient cohort from Wisconsin Sleep Database using Python (pandas, scikit-learn)
- Prepared literature review and manuscript on LaTeX for **research publication** on OSA diagnosis, evaluated & summarized data methodology and research findings on sleep disorders from **100+** publications

Crosstree Capital Partners   **August 2023 - May 2024**
Data Analyst Intern   *Tampa, FL*
- Leveraged **Excel (Power Query)** to cleanse & preprocess **20000** data records regarding pharmaceuticals and drug development industry for **20** research reports, directing company outreach marketing and sales lead generation
- Conducted operating metrics & service provisions analysis (**Pivot Tables, Conditional Formatting**) of **3000** clinical research companies, enabling executives to advise **15** company's clients on mergers & acquisitions

Projects

Retail Customer Segmentation & Recommendation System   **May 2024 - August 2024**
- Applied exploratory data analysis & feature engineering from **500k** transactions to create 15 customer-centric features
- Implemented **K-means clustering** to segment customers into **3** distinct groups, analyzed each cluster to profile customer preferences and assess segmentation effectiveness
- Developed a **recommendation system** that improved product suggestion accuracy by **30%** and increased targeted sales by **25%** within segmented customer groups

Customer Transaction Fraud Detection   **August 2023 - October 2023**
- Trained **XGBoost** model to detect fraudulent transactions utilizing **scikit-learn** to analyze dataset with **1,000,000+** customer transactions and **400+** different features
- Applied feature encoding and forward feature selection to select important features to improve model performance
- Implemented different cross validation strategies and hyperparameters tuning to maximize AUC score to **0.93**

Leadership / Extracurricular

Association for Computing Machinery (ACM)   **October 2022 - Current**
Secretary, Marketing Chair, Advisory Board mentor   *University of South Florida*
- Led a team of **5** to conduct marketing campaigns to resolve workshop low interaction and attendance rate, analyzed root causes and potential solutions using **Excel**, raising club membership by **40%** and event attendance by **1.6x**
- Managed event logistics of **100+** workshops with a total of **3000+** attendants, represented ACM at **35** professional events, coordinated marketing and operation teams to ensure smooth event collaboration