AMELIA NGUYEN

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EDUCATION

UNIVERSITY OF MICHIGAN - DEARBORN **Dearborn, MI**
Master of Science in Data Science, GPA: 4.0. *Expected Graduation: May 2027*
Concentration*:* Computational Intelligence
Relevant Coursework: Machine Learning and Computational Statistics, Regression Analysis, Database Systems, Big Data, Operations Research, Data Analytics & Modeling. *Planned:* Deep Learning, Intelligent Systems, Natural Language Processing.

FOREIGN TRADE UNIVERSITY **Hanoi, Vietnam**
Bachelor of Business Administration, GPA: 3.8. *May 2023*

TECHNICAL SKILLS

Machine Learning & AI: Regression, Classification, Tree-Based Models (Decision Trees, Random Forest, Gradient/XGBoost), Deep Learning (Neural Networks, CNNs, RNNs), Time Series Analysis, K-Means Clustering, Recommendation System.
Languages & Frameworks: Python (Pandas, Scikit-learn, NumPy, Matplotlib, Seaborn, Tensorflow, PyTorch), SQL, PySpark.
Analytics: Data Modeling, ETL, Data Mining, Segmentation, A/B Testing, Analytical Reporting.
Big Data & Cloud Platform: Spark, HDFS, GCP (Big Query, Vertex AI), Airflow.
Data Visualization & BI Tools: Tableau, Power BI, Metabase, Google Analytics, Excel, SAP Analytics Cloud.

PROFESSIONAL EXPERIENCE

GEARLAUNCH **Hanoi, Vietnam**
Data Analyst *Nov 2023 - Jul 2025*
- Served as the **sole data analyst**, managing the company's end-to-end internal analytics infrastructure and presenting business analysis insights directly to C-level leadership and department heads.
- Designed and deployed Machine Learning (Regression, Random Forest, XGBoost) and Time Series Analysis (AR, ARIMA, SARIMAX) for e-commerce executive strategy development, supporting annual sales KPIs increase by 20%.
- Implemented and optimized scalable data pipelines using SQL, Python, GCP, and Tableau, streamlining reporting workflows and increasing data processing efficiency by 3 times more data without additional infrastructure.
- Analyzed data from 35,000 monthly active user stores with ad-hoc and automated analytics, resulting in an average of 50% increase in marketing conversions and 30% decrease in customer ticket issues.

VCCORP **Hanoi, Vietnam**
Data Analyst - Team Lead *May 2023 - Nov 2023*
- Managed a team of four to perform full-cycle A/B testing for recommendation engines deployment on 7 digital media websites, resulting in 10–30% monthly gains in core web KPIs.
- Designed and built an automated A/B testing evaluation analysis framework used in the company's internal platform and a client-facing product.
- Maintained primary responsibility of advanced ad-hoc analysis for 3 digital publishing platforms for editorial teams.

Data Analyst *March 2022 - May 2023*
- Designed and monitored 30+ KPIs with automated dashboards and provided ad-hoc analysis for 5 digital publishing products.
- Developed user segmentation that helped increase app notification system engagement to 30% within 3 months.

PROJECTS

ML-based ADAS Models for EVs *May 2026 - Present*
Building ML-based models integrated with explainable LLMs on real-time sensor, telemetry, and environmental data.

Fuel Consumption Prediction for ICE powertrain vehicles | *Python, XGBoost, LightGBM, LSTM, TCN* *Apr 2026 - May 2026*
Achieved a 13.87% MAPE and 0.3 MAE on real-world ODB-II telmatics data collected from ~300 vehicles.

Deer-Vehicle Collision (DVC) Prediction | *Python, Random Forest, Gradient Boosting, K-Means* *Apr 2026*
Predicted DVC risk with supervised methods and K-Means clustering with PCA.

Recommendation Systems for Online Retail | *PySpark, Recommendation System* *Nov 2025 - Dec 2025*
Built Content-based and Collaborative Filtering recommendation systems with 80% accuracy.

Vehicle Crash Frequency and Severity Prediction | *Python, Regression, Classification* *Nov 2025 - Dec 2025*
Deployed predictive modeling and diagnostics using linear regression and logistic regression with 85% accuracy.

CERTIFICATES

Deep Learning and Neural Networks (DeepLearning.AI) | *Neural Networks, CNNs, RNNs, TensorFlow* *Apr 2026*
Machine Learning Professional Certificate (DeepLearning.AI) | *Supervised & Unsupervised Learning* *Mar 2026*