

Ninh Giang Nguyen

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EDUCATION

Colby College, Waterville, ME, USA, **Bachelor's Degree**

Graduating May 2026

Major: Computer Science & Economics **Minor:** Statistics

Major GPA: 3.91/4.0

Relevant Coursework: Data Analysis & Visualization, Statistical Modeling, Interpretable AI, Survival Analysis, Probability, Neural Networks, Financial Technology, Computer Vision.

WORK EXPERIENCE

VPBank

June - September 2025

Data Science intern

- Analyzed and processed 5M+ customer records to develop a deep-learning Credit Card Approval model, predicting profiles with high-likelihood of successful registration and fund disbursement, boosting the estimated approvals by 10%
- Conducted exploratory data analysis (EDA) and feature engineering utilizing **SQL** and **Big Data Query** tools, trained advanced AI techniques—including DeepGBM and SAINT— achieving 7.5% lift in prediction accuracy, and deployed the optimal solution on **AWS SageMaker**
- Designed presentation and delivered project defense using **PowerBI** to 10+ executive business analysts and stakeholders
- Researched advanced applications such as AI-driven risk scoring and fraud detection, collaborating with senior data scientists

Greentech Vina

June - September 2024

Data Analyst

- Consolidated and refined 10M+ international trade records between Vietnam and 90+ other countries on Ziploc and Zipper bag products, leveraging **Excel** and **Python** to optimize product distribution and forecast market tendencies
- Performed trend and pattern analysis with **Tableau** to identify anomalies, price shifts and key customer segments for data-driven decision-making, contributing to a projected 15% increase in engagement rates
- Streamlined cross-department collaboration between analytics, sales, and marketing teams by redesigning reporting pipelines, cutting manual analysis, and improving insight turnaround time by 30%

Colby College

September 2023 - current

Head of Math Teaching Assistant

- Facilitated study sessions for 30+ students, effectively clarifying complex concepts in Linear Algebra and Calculus II
- Coordinated with faculty to grade and provide detailed, constructive feedback, ensuring accurate academic evaluation

PROJECTS

FutureProof: Bankruptcy Detection | [Github](#)

May 2024

- Built predictive models to estimate bankruptcy risk for ~7,000 companies using financial performance metrics
- Applied **Joblib**, **Seaborn**, **scikit-learn**, and **SHAP** to conduct EDA, feature engineering, data and results visualization, model behavior interpretation and feature importance
- Optimized **Logistic Regression** and tree-based models (**XGBoost**, **Random Forest**, **SVM**, and **LightGBM**), achieving ROC AUC >0.90
- Deployed an interactive dashboard leveraging **Streamlit** to predict bankruptcy and highlight top 5 financial risk indicators

PharmaGuard | [Github](#)

January 2025

- Engineered a **MySQL database** with three interlinked schemas (**APIs** from OpenFDA, DailyMed, MedlinePlus) to integrate drug details, recalls, and adverse events into a comprehensive system, enabling sub-second query performance
- Compiled a **Python-based ETL pipeline** with **Pandas**, **SQL** and **Spark** to extract, clean, and store drug information, and utilized **Hive** for efficient querying and up-to-date aggregation of large datasets

AdoptGraph: Social Tech Uptake Forecasting | [Github](#)

June 2025

- Forecasted technology adoption among Facebook users by analyzing 100K+ social graph nodes and edges, incorporating features such as friend count, interaction frequency, and neighbors' behavior
- Implemented a 3-layer **Graph Convolutional Network** with **PyTorch Geometric**, reaching a weighted F1 score of ~0.80

TECHNICAL SKILLS & INTERESTS

Technical Skills: Python, Pandas, NumPy, TensorFlow, SHAP, SQL (Hive, Spark), R, AWS, Snowflake

Data & Statistical Tools: Logistic Regression, Predictive Analytics, Big Data Query, Excel VBA, Tableau, PowerBI, Databricks

Machine Learning & AI: PyTorch, Keras, Clustering, PCA, Model Evaluation, Neural Networks, Deep Learning

LEADERSHIPS

Kindness Boomerang | President

2020 - 2023

- Led a Nonprofit Organization for orphans and people with disabilities
- Organized online classes to supplement academic knowledge for HIV-infected children at Hanoi Rehab Center No. 2