

Thu-Hien Nguyen

Working Student in Data Analytics | Available 20 hours/week | Cologne, NRW

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EDUCATION

University of Cologne - Master in Business Analytics & Econometrics Oct 2025 – Oct 2027

- **Projects:** Airbnb Price Prediction (regression modeling in R, RMSE-based model evaluation); Customer Churn Classification (classification modeling in Python, AUC-based model evaluation)
- **Coursework:** Programming for Data Analysis, Machine Learning, Data Visualization and Management

National Economics University (Hanoi, Vietnam) - Bachelor in Finance & Banking Sep 2016 – Jul 2020

- Distinction Degree – equivalent to 1.4 in German scale

WORK EXPERIENCE

Data Analyst - Risk Management Division Jun 2022 – Aug 2025

MB Shinsei Consumer Credit Finance GmbH Hanoi, Vietnam

- Processed and integrated data from multiple databases (Oracle SQL, SQL Server) to create 3 reports for monitoring fraud risk performance metrics. Automated reports using SQL (Stored Procedure) and Excel (Power Query).
- Developed and evaluated fraud detection models for digital customers using Python and Oracle SQL; model outputs supported underwriting decisions, achieving 30% recall (GINI 0.42). Collected and preprocessed data, defined target variables, and evaluated Random Forest and XGBoost models.
- Designed a fraud risk scoring system for direct sales using R, SQL Server, and Excel; used for investigations and sales interventions, improving detection to 40%. Defined methodology, risk features and thresholds, segmented sales into risk tiers, and implemented operational alerts.
- Collaborated with IT developers and business analysts to deploy a fraud ring detection tool that reduced manual review by 25%. Defined detection logic, drafted URDs, and ran UATs.
- Received 1 company-wide distinction rating and 2 division-wide awards.

Reporting Specialist - Wholesale Banking Division Jan 2021 – May 2022

OceanBank GmbH Hanoi, Vietnam

- Built and maintained Excel-based reporting for product and branch performance, cleaned and structured datasets, applied advanced formulas and Power Pivot.

SKILLS

Technical Skills

- **Python (pandas, scikit-learn) and R (tidyverse, tidymodels):** Data Preprocessing, Exploratory Analysis, Regression & Classification Models, Model Evaluation
- **SQL (SQL Server, Oracle):** Joins, Common Table Expressions (CTEs), Window Functions, Stored Procedures
- **Power BI:** Dashboards, DAX Functions, Data Modeling

Language skills

- English: C1 (Professional working proficiency) | German: A1 (Currently learning, motivated to improve)

CERTIFICATES

- **DataCamp:** Preprocessing for Machine Learning in Python; Machine Learning and Statistics in R (2025); Data Analyst in Power BI (in progress)
- **Google:** Develop AI-powered Prototypes in Google AI Studio (2025); Google Data Analytics Certificate (2023)
- **HackerRank:** SQL Advanced Certificate (2022)