

TRI DUNG (DUSTIN) HUYNH

[in LinkedIn](#) | [GitHub](#) | ☎ 703-862-6191 | ✉ tridung.huynh@gmail.com | 🌐 Steeple Chase Ct, Springfield, VA, 22153

Summary

Data Scientist with 1+ years of experience at a leading Multinational Semiconductor company. Proficient in developing optimization models, implementing data pipelines, and creating financial document classification models. Achieved 1st place in the Master of Science for Machine Learning/Data Science program, demonstrating expertise in building predictive deep learning models and conducting experimental research. For my next role, I am eager to leverage statistical knowledge and expertise in machine learning, deep learning, and AI to extract meaningful insights from data and drive the development of impactful products and strategies for stakeholders.

Skills

- **Programming:** Python, R, C#, Scikit-learn, Keras, TensorFlow, SQL, Hadoop, AWS, Stata
- **Visualization:** Tableau, Power BI, Matplotlib, Seaborn
- **Machine Learning:** Deep Learning (Advanced), Deep Reinforcement Learning, Clustering and classification, Support Vector Machines, Natural Language Processing, Image Processing, Optimization in Machine Learning
- **Others:** Statistical modeling, Data Analysis, Data structures, Data modeling, Predictive Analysis and Forecasting, Empirical Productivity Analysis, Operations Optimization, Agile, SCRUM

Experience

Data Analyst for FBA Amazon

PERX LLC

VA, USA 01/2023 - Current

- Analyze Amazon selling data analysis to strategically source potential products, with a specific focus on **resolving logistical shortages and addressing areas of reasonable demand**, offering a wide range of products (more than 200 products) and providing an exceptional buying experience to customers
- Establish and optimize a streamlined workflow for an international team, facilitating seamless collaboration in their daily workload using Lark base technology

Infineon Technologies AG, The biggest German semiconductor company with 50,000 employees

Data Scientist - Mergers & Acquisitions and Corporate Strategy

Munich, Germany 03/2022 - 08/2022

- Implemented a cutting-edge **data pipeline for the Competitive Intelligence platform** and successfully integrated the S&P Capital IQ database into Infineon's robust big data infrastructure, enabling seamless access for stakeholders to internal and external semiconductor strategy analyses in real-time
- Proficiently manage and enhance industry databases and competitive analysis, encompassing vigilant tracking of M&A activity and benchmarking initiatives
- Spearhead the automation of preprocessing procedures and establishment of a comprehensive financial analysis database for quarterly strategy reports, achieving a remarkable **400% increase in efficiency**
- Tech Stack: Python, SQL, Tableau, Data Lake, S&P Global Market Intelligence API

Data Analytics and Reporting for Strategic Planning

Munich, Germany 09/2021 - 02/2022

- Developed automation software for exporting Analysis Dashboards, enabling data processing and analysis on the Tableau server in **just 8 minutes** per task, a significant improvement from the **previous 300 minutes** per task for each team member
- Designed and implemented optimized models to automate planning processes, resulting in a remarkable **200% increase** in team efficiency by controlling the relationship of demands, capacities, resources, and production routes of multinational production factories
- Tech Stack: R, Hadoop, SQL, Google's OR-Tools, Python, Tableau, Data Lake

Founder

PERX OÜ

Estonia 01/2019 - 12/2020

- Cooperate with SMA Solar Technology, Germany to develop the solar power market in Vietnam
- Facilitate technology transfer and provide technical training to engineers on the installation, operation, and maintenance of SMA's advanced solar power systems

ALT Academy Research Consulting Group, Vietnam

Sales Manager

Marketing Manager and Senior Consultant

Ho Chi Minh City, Vietnam 05/2014 - 03/2015

Ho Chi Minh City, Vietnam 01/2013 - 05/2014

Projects






Deep learning for predicting short-term demand in bike sharing systems

Otto-von-Guericke University Magdeburg

<https://github.com/HAKO411/Deep-Learning-for-Short-term-bike-sharing-demand-prediction>

- Built Deep Learning models: LSTM and CNN-LSTM prediction model for short-term demand at each station for the next two hours in bike sharing systems using Helsinki Region Transport data and weather features
- **12M entries, 14 attributes** pickup data, and **40.000 entries, 18 attributes** weather data
- Tech Stack: Python, TensorFlow, Keras, SciPy, seaborn, NumPy
- Achievement: Discover characteristics of demand stations, tune models for **MAE=1.3, R-squared >0.85**

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The crew scheduling system for public transportation service providers

Otto-von-Guericke University Magdeburg

<https://github.com/HAKO411/crew-scheduling-problems>

- Developed a mixed-integer column generation optimization model to schedule **1000s trips** for bus drivers based on limited driving time, break time, driving and non-driving time constraints
- Tech Stack: Google's OR-Tools library for Optimization model, Python, VS code
- Achievement: Successfully implemented model to optimize a real-world transportation problem

Classifying and Clustering for Natural Language Processing

Otto-von-Guericke University Magdeburg

- Implementing and fine-tuning a Semi-Supervised Learning model for classifying and clustering a dataset of **20,000** newsgroup documents
- Tech Stack: Data Preprocessing, Word Embedding, Word2Vec, LDA Topic modeling, Label Propagation, scikit-learn, Python

Prediction Model and Portfolio Optimization for Investment Portfolio

Otto-von-Guericke University Magdeburg

<https://github.com/HAKO411/Portfolio-Optimization>

- Build asset's price prediction model with ARIMA and Deep learning - Stacked LSTM model and achieved 90% accuracy
- Build an optimized portfolio with Modern Portfolio Theories
- Tech Stack: TensorFlow Keras, SciPy, seaborn, Python, Jupyter Notebook

Analyze the joint effect of goal framing and anchoring on online shopping behavior - Master Thesis - University of Kassel

<https://github.com/HAKO411/master-thesis-The-joint-effect-of-goal-framing-and-anchoring-on-online-shopping-behavior>

- Designed and conducted a field experiment to observe the joint effect of goal framing and anchoring on online shopping behavior on the Amazon platform
- Used the Proportional Odds models to analyze ordinal categorical experiment data
- Tech Stack: Proportional Odds model, Stata programming

Analyzed quality efficiency scores of Electricity Distribution Companies in New Zealand

University of Kassel

<https://github.com/HAKO411/Quality-efficiency-of-Electricity-Distribution-Companies-in-New-Zealand>

- Applying the Data Envelopment Analysis method to analyze technical efficiency in the Efficiency model and Quality efficiency model for 29 electricity distribution businesses in New Zealand
- Tech Stack: Data Envelopment Analysis model, DEA library of Stata programming

Education

Master of Science - Operations Research and Business Analytics – Ranked 1st of the program (Dean's List)

Otto-von-Guericke University Magdeburg, Germany

- Focus: Machine Learning and Data Science in Finance and Supply Chain Management

Master of Science - Economic Behaviour and Governance

University of Kassel, Germany

- The study of psychology that analyzes the decisions people make and why irrational choices are chosen

Bachelor of Arts - Banking and Finance

Foreign Trade University, Vietnam

- Focus: International Finance

Bachelor of Arts - Business Administration

Foreign Trade University, Vietnam

Award

- Ranked 1st in Master of Science: focus on Machine Learning and Data Science (07/2023)
- Won 2nd award in the Mathematics regional competition (Vietnam, 2008)