

Phuc (Patrick) Nguyen

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Skills

- **Data Analysis:** Visualization, Machine Learning, Deep Learning, Data Mining, Web Scraping
- **Programming Languages:** Python, SQL, R, VBA, DAX
- **Expertise:** Scikit-learn, NumPy, SciPy, Keras, LightGBM, Plotly Dash, Flask, Streamlit
- **Tools:** MySQL, Google Collab, Jupyter Notebook, Git, Docker, Excel, Power Query, Power BI
- **Language:** English, Vietnamese

Education

MSc in Data Science and Advanced Analytics

NOVA Information Management School | Sep 2020 – Jun 2022 | Portugal

Major: Business Analytics – CGPA: 17.9/20

Main courses: Data Mining | Machine Learning | Statistics for Data Science | Deep learning | Data Visualization | Text Mining | Programming for Data Science

Bachelor of Engineering

Ho Chi Minh University of Technology | Aug 2014 – Mar 2018 | Vietnam

Major: Automation and Control Engineering

Honors program – GPA: 8.6/10 – Top 5% of the 2018 graduating class

Projects

Income prediction model

Machine Learning | [Repository](#) | [Report](#)

- Keywords: GLMM, Logistic Regression, Random Forest, Gradient Boosting, and Stacking classifier

Donors clustering for marketing

Data Mining | [Repository](#) | [Report](#)

- Keywords: Customer segmentation, Feature selection, DBSCAN, LOF, K-means, Self-Organizing Maps, Hierarchical Clustering, Marketing plan

FIFA Dashboard visualization

Data Visualization | [Dashboard](#) | [Repository](#) | [Report](#)

- Keywords: Plotly, Dash, Heroku, Python, Web-app, Dashboard

Business Cases with Data Science

Advanced Analytics & Business | [Repositories](#)

- Keywords: Data Pipeline, MLOps, CI/CD, Clustering, Predictive modelling, Recommendation system, Market Basket Analysis, Web application

Cryptocurrency forecasting

Deep learning | [Repository](#) | [Report](#)

- Keywords: Timeseries, Forecasting, Keras, RNNs, LSTM, GRU, BiLSTM

Metrics for Machine Translation

Text Mining | [Repository](#) | [Report](#)

- Keywords: NLP, Scoring Metrics, ROUGE, BLUE, BLUERT, Regression, LightGBM

Professional Experience

Google Search Language Specialist – QUALITEST

Jun 2021 – Present, Portugal

- Optimizing Google Search Engine with the best answers from Google Knowledge Graph;
- Reach the highest possible quality of users' queries understanding via annotating language data, fine-tuning NLP, NLU algorithms and QA testing;
- Facilitating projects of revisions that increased the initial approval of correct queries annotations from 50% to over 85%

Management Consultant – KPMG

Jul 2019 – Aug 2020, Vietnam

- Conducted interviews, focus groups, researches to gather insights and deeply understand clients' pain-points and needs regarding supply chain and operations management;
- Collected & built operational data warehouses and reports using MS Excel Power Query & Power Pivot;
- Advised and designed data templates and dashboards for a SCM digital transformation project.

Industrial Engineer – NIKE

Dec 2018 – June 2019, Vietnam

- Led project for innovation & new machine integration under industrial engineer role;
- Facilitated workshops on Process Improvement Ideas and Techniques for partners' factory;
- Validated processes cycle time data, conducted motion study and process standardization to optimize labor cost.

Certificates

- Microsoft Certified: Azure AI Fundamentals
- The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert