KIM KHAI NGUYEN

Availability: Full-time opportunities starting May 2025

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Portfolio: dylannguyen2111.github.io/My_Portfolio ◇ Github: DylanNguyen2111

EDUCATION

Nanyang Technological University — Aug 2021 - Jun 2025
Bachelor of Engineering (Electrical and Electronic Engineering), Honours (Highest Distinction) — *Singapore*

- Specialisation: Data Analysis and Machine Learning
- Awards: Dean's List for Academic Year 2023-2024

WORK EXPERIENCES

Corning Singapore Holdings Private Limited — June 2023 - Dec 2023
Data Analyst Intern — *Singapore*

- **Achieved a 5% cost reduction** for APAC by utilizing **Natural Language Processing** in **Jupyter Notebook** to analyze global spending data, identifying bulk purchase discount opportunities.
- **Optimized 29 dashboards in Power BI** leading to faster data insights and improved decision-making processes.
- Developed an **automated VBA solution for supplier performance reporting**, boosting report efficiency by 100%.

Meiyume (Singapore) Pte. Limited — May 2024 - Aug 2024
Data Management & Analytics Intern — *Singapore*

- Designed and implemented the **HR Dashboard and Sustainability Dashboard** incorporating comprehensive visualization and forecasting features to enable proactive decision-making and streamline the data pipeline with **AWS integration**.
- Conducted **topic modeling and sentiment analysis** on luxury fragrance packaging for **COTY** using **Python and OpenAI**, identifying key design elements and consumer sentiment tailored for APAC markets.
- **Analyzed leading UK skincare brands** for **The Body Shop**, using **Llama 3**, identifying key ingredients and consumer sentiment that informed product development.

Industrial Scientific Corporation — Sep 2024 - Jan 2025
Business Analyst Intern — *Singapore*

- **Developed actionable metrics and dashboards** to drive strategic decision-making and improve sales performance based on comprehensive sales data analysis.
- Ensured the accuracy of **tendering commercial documentation**, aligning with company standards and client requirements.
- Assisted in planning and optimizing **digital marketing campaigns**, utilizing market research to enhance targeting and engagement strategies.

ACADEMIC PROJECTS / PERSONAL PROJECTS / RESEARCH EXPERIENCE

NTU Final Year Project — Aug 2024 – May 2025
GraphRAG-GNN: Enhancing Reasoning Capabilities in Complex Financial Query Handling

- Assessed the effectiveness of **RAG, GraphRAG, and GraphRAG-GNN models** in extracting and analyzing financial information, highlighting their **accuracy, efficiency, and relevance**.
- Showcased **GraphRAG-GNN's exceptional ability** to handle complex financial queries, delivering more precise insights and reliable answers for financial analysis.
- Awarded **Distinction Grade** upon project completion.

Bank Customers Churn Predictor — Feb 2024 – Mar 2024
A Data-driven Approach to Forecasting and Mitigating Customer Attrition

- Predicted churn for **10,000+ credit card customers** by analyzing demographics, credit history, and product usage, boosting model accuracy by **12%** through advanced feature engineering.
- Used **SHAP (SHapley Additive exPlanations)** to reveal key churn factors, offering actionable insights to improve customer retention strategies.

LEADERSHIP / EXTRACURRICULAR ACTIVITIES

NTU Vietnamese Freshmen Orientation Camp — Jun 2022 – Aug 2022
Group Leader — *Singapore*

- Led a team of **40 members**, including freshmen, during a **3-day camp**.
- Planned and hosted various Orientation Group events, such as **Bonding Sessions, Outing Day**, and other camp activities.
- Provided guidance and support to freshmen to help them adapt to **NTU campus life** and academic aspects effectively.

SKILLS

- **Programming Languages & Tools:** Python, R, SQL, Visual Basic Code (VBA), Power BI, Tableau, Octoparse.
- **Data Science & Machine Learning:** TensorFlow, PyTorch, Scikit-Learn, Pandas, Numpy, Hugging Face, LangChain, Selenium.
- **Big Data & Cloud Computing:** AWS (S3, Redshift), Google Cloud Platform, Spark, Hadoop, MySQL, PostgreSQL, Oracle.
- **Soft Skills:** Team player, Self-motivated, Detail-oriented, Problem-solving, Initiative.