Huỳnh Thanh Quan
Lead Data Scientist

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Fueled by a fervor for solving real-world problems with technology, my journey in data science, employs advanced AI and machine learning to address intricate challenges within the realms of fintech and banking. At present, my primary emphasis lies in conducting research in the fields of computer vision and large-language models.

WORK EXPERIENCE

HCL Tech Vietnam   **Sep 2023 - Present**
Lead Data Scientist | Data Consultant
- Established Master Data Management Architecture and Customer Data Platform Strategy at Sacombank, initiated 12 business use cases to increase revenue.
- Guided a team in embracing contemporary development tools and technologies, yielding a 50% decrease in development time for new features and a 400% acceleration in deployment time
- Formulated and implemented a customer retention model, resulting in a 10% reduction in churn, cutting marketing costs by 15%, and optimizing the conversion rate by 13%.
- Executed a customer personalization model, elevating customer satisfaction by 33% and contributing to a 25% improvement in customer retention rates.

Carro   **March 2022 - Sep 2023**
Senior Data Scientist
- Developed and applied deep learning solutions encompassing OCR, GANs, and Diffusion models to generate high-quality AI demonstrations, resulting in a substantial 60% boost in customer satisfaction, a 35% increase in revenue sales, and a notable 27% reduction in marketing costs.
- Introduced an automation pricing model that streamlined operations, diminishing workload and resource requirements by 80% while maintaining an accuracy rate above 95%. This initiative facilitated a seamless transition in the company's internal processes.
- Oversaw a team of 5 members responsible for deploying models on AWS Infrastructure, successfully optimizing monthly resource costs by 15%.

One Mount & VinID   **Jan 2020 - Mar 2022**
Senior Data Scientist
- Led a team in developing a Fraud Detection solution for the VinID App, successfully reducing data latency by 50%, thereby enabling faster decision-making and enhancing the speed of risk operations by 300%.
- Implemented innovative Consumer Loans products with a novel Credit Risk model, resulting in an impressive 67% improvement in the Gini score and contributing to a revenue increase of 35 billion in lending business.
- Collaborated with the product team to implement private scoring APIs, serving over 100,000 online requests and directly contributing to a business growth of 2.5 billion in just 3 months.
- Established strategic connections with key entities including Techcombank, Home Credit, FE Credit, Zalo, TELCO, VMG, Rate+, and Kalapa to facilitate provisioning and model benchmarking, leading a notable 35% increase in Gini.

Katalon   **Jan 2019 - Dec 2019**
AI Engineer
- Engineered a conversational AI interface to streamline customer support, reducing resolution times by 50% and increasing customer satisfaction scores by 15%.
- Orchestrated the integration of sentiment analysis into the chatbot system, allowing for real-time monitoring of customer feedback and sentiment.

Robert Bosch   **Feb 2017 - Dec 2018**
Software Engineer
- Engineered a robust back-end server and client API for IBM, enhancing the integration and interoperability of software solutions within the organization.
- Conceptualized and implemented an innovative source code management system (RTC) tailored for seamless internal use, ensuring efficient collaboration and version control among project teams.

EDUCATION

VIETNAMESE GERMAN UNIVERSITY

- Bachelor of Electrical Engineering & Information Technology graduated 2017
  - First place at Automative Car competitions in 2013
  - Earned 100% Scholarship program in 2013 - 2014

PROJECTS & COURSES

- **Skin-Detective AI Engine**
  - AI Core Engine behind the product Skin Detective AI
  - Published well-known research articles in Diagnostics 2022, (Scopus Impact Factor 3.9)
- **My teaching courses.**
  - Include 3 well-known business case studies and 3 basic tech-stack for beginners. (preview)
  - Top 1 course in DataJobsVN, exclusive knowledge for even experienced Data Scientist
- **Credit Scoring Modeling**.
  - Business case study how to build credit risk modeling.
  - Guideline and manage credit risk portfolio.
- **AI Capital Ventures**
  - A portfolio management app to manage investment funding.
  - Manage multiple accounts, pull stock data API and build frontend.
- **Graph Theory**
  - My research on graph theory and DAG structure
  - Graph visualization and embedded segmentation on Natural Language processing.

TECH SKILLS

- **Tech Stacks:** Python, Java, C/C++, TensorFlow, PyTorch, Kafka, Postgres, Docker, MLRun, Openshift, Kubernetes, Postgres, MongoDB, Docker, Scikit-learn, XGBoost, CatBoost, LightGBM
- **AI & Deep Learning:** Object Detection, Image Classification, GANs, Transformer, Attention, NLP
- **Cloud Skills:** Google Cloud Platform, AWS, GitLab, Azure
- **Project Management:** Jira/Confluence, Scrum Agile, Notion

PAPER ARTICLES

- First author of Automatic Acne Object Detection and Acne Severity Grading Using Smartphone Images and Artificial Intelligence Diagnostics 2022, 12(8), 1879 (Scopus Impact Factor 3.9)
- First author of Deep Learning-Based Automatic Detection of Defective Tablets in Pharmaceutical Manufacturing BME8 2020. IFMBE Proceedings, vol 85. Springer

REFERENCES

- **Hoan, Thanh Ngo**
  - Postdoctoral Research Fellow - ngothanhhoan@gmail.com
  - Johns Hopkins University, Baltimore, MD, USA
- **Duc, Thanh Nguyen**
  - Postdoctoral Researcher - thanhduc1910vn@gmail.com
  - Montreal Neurological Institute, McGill University, Canada

CERTIFICATE

- My Courses on Google Cloud Skills