THONG YONG QUAN, DANNY

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TECHNICAL SKILLS

Programming Languages & Frameworks: Python, SQL, FastAPI, Flask, Scikit-learn, TensorFlow, PyTorch
Tools and Platforms: Power BI, Docker, Git
MLOps and Cloud: AWS (EC2, ECR), Azure (Container Registry, Web App), GitHub Actions
Machine Learning Models: Linear Regression, Logistic Regression, Decision Trees, Random Forest, K-Nearest Neighbors (KNN), K-Means Clustering, Principal Component Analysis (PCA), XGBoost, CatBoost
Other Skills: Financial Modeling, Financial Analysis, Compliance, Fraud Detection

PROJECTS

Student Performance prediction

- Built an end-to-end ML pipeline for student performance prediction, incorporating CI/CD workflows.
- Deployed the model using AWS (EC2, ECR) and Azure Web App, ensuring scalability and reliability.
- Utilized Docker for containerization, enabling efficient and portable deployment.

PROFESSIONAL EXPERIENCE

AI Singapore – AI Apprentice   **Jan 2024 – Oct 2024**

- Collaborated with a team of 4 engineers to develop an **end-to-end machine learning pipeline** for clinician support, enabling timely antibiotic interventions.
- Designed a transformer-based **Named Entity Recognition (NER)** model, improving infection diagnosis accuracy from medical reports.
- Built and dockerized a **FastAPI-based framework**, streamlining ML model deployment and integration.
- Engineered a multistage **data-processing pipeline** to standardize **time-series and tabular data** and **tabular data** for enhanced model performance.
- Contributed to **Explainable Boosting Model (EBM)** development to ensure clinical transparency and applicability.
- Mentored junior apprentices in **Neural Networks** and **NLP**, fostering collaboration and skill development.

CriAT – Product Analyst   **Jan 2022 – Sep 2022**

- Extracted and analyzed **financial transaction data** from **MySQL** to identify patterns and trends.
- - Built **Power BI dashboards**to visualize **product performance** and market trends.
- - Automated QA processes using **Python**, improving efficiency by **20%**.

Various Banks - Private Banking Support Manager   **2016 - 2019**

- Held multiple roles in **compliance** and **client due diligence (CDD)**, with a strong focus on **Know Your Customer (KYC)**, **transaction monitoring**, and **fraud prevention**.
- Delivered significant **process improvements, achieving a 20% reduction in turnaround times** across multiple positions.
- Demonstrated expertise in analyzing client profiles to identify and mitigate potential risks.

Freelance - TMT Equity research   **Jun 2018 – Aug 2019**

- Built financial models and evaluated SEC reports to forecast earnings and profitability for listed and pre-IPO companies.

EDUCATION AND CERTIFICATION

AI Singapore: AIAP Certification
Boston Consulting Group: Business and Data Analytics Certificate
Corporate Finance Institute® (CFI): Financial Modeling & Valuation Analyst
University of London: Bachelor's Degree in Banking and Finance