



Ta Anh Tuan

AI Engineer

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EDUCATION

2016 - 2022 **Post and Telecommunication Institute of Technology**
Software Engineering
Graduated - Good Degree

HONORS & AWARDS

2017 Silver Medal in the Vietnam Mathematical Olympiad

CERTIFICATIONS

2023 Google Cloud Professional Machine Learning Engineer
2022 IELTS Certificate with score 7.0 issued by IDP
2020 IELTS Certificate with score 6.5 issued by IDP

WORK EXPERIENCE

09/2022 - 03/2024 **Cloud Ace - Google Premier Partner in Vietnam**
AI Engineer - Ho Chi Minh City site

- 1. PNJ Project - SI Project - AI Engineer
 - 1.1 Time Series Goods Demand Forecasting
 - Built an Arima model to predict the jewelry demand.
 - 1.2 Replenishment - Products Delivery
 - Used Python to run rules for goods delivery(from factories to PNJ stores).
 - 1.3 Automation and Data Modelling
 - Designed Data modeling for final tables in BigQuery(SQL)
 - Built Cloud Function to automate the flow of product delivery parallelly
- 2. An Binh BANK - SI Project - AI Leader
 - 2.1 Association Rule - Recommendation System
 - Implemented the Apriori Algorithm to create the relations between 2 banking services/service groups in An Binh BANK
 - Built a service recommendation table for use, based on the service relationships.
 - 2.2 Customer Clustering
 - Conducted features assessment and data analyst abilities
 - Implemented fine-tuning techniques for the Kmean model

2.3 Churn Rate Prediction

- Analyzed and cleaned data
- Built multiple AI models for churn prediction in CASA, CARD, and other banking services(XGBoost Models in BigQuery)
- Used Vertex AI Hyper Tuning job to optimize parameters(Bayesian Optimizer)

2.4 Sentiment Analysis

- Implemented Speech-to-Text API to convert speech to text.
- Implemented Sentiment Analysis API to score the sentiments of the speaker.

2.5 MLOps and Data Modelling

- Designed data modeling for final tables in BigQuery(SQL).
- Implemented data encryption, following Vietnamese laws
- Built docker with Cloud Build, Artifact Registry(GCP services)
- Using Vertex AI pipelines to automate the AI flows (Kuberflow)
- Using Looker Studio to visualize the outputs in charts.

3. BIDV - Consulting, POC Project - IT Consulter, Supporter

3.1 Bankruptcy Prediction

- Analyzed and cleaned data
- Implemented XGBoost in BigQuery to predict bankruptcy
- Implemented Vertex AI Parameters Hyper Tuning job (Bayesian Optimizer)
- Implemented Vertex AI pipelines to automate the AI flows (Kuberflow)

4. Trusting Social - Consulting Project - IT Consulter

4.1. Online Fraud Detection in Real-Time

- Built Pub/Sub to get message event (transactions event) in Google source.
- Created a Feature Store with the Customer entity and terminal entity.
- Implemented batch ingestion with transactions from Google Cloud Storage to BigQuery, and from BigQuery to Feature Store
- Built Dataflow pipeline to streaming ingestion from Pub/Sub to Feature Store
- Implemented XGBoost in BigQuery and uploaded it to Vertex AI Model Registry
- Deployed Vertex AI Endpoint for online serving (real-time)

5. Generative AI-Powered Chatbot - Demo Project, Wenminar

- Built a customer support chatbot, fine-tuned by the company profile context, and answered questions based on the provided dataset.
- Built an appointment-scheduling chatbot, which could chat with customers to set appointments.

08/2020 - 09/2022

Fpt Software

Data Science (8/2022-11/2022) & Data Engineer (3/2021-9/2022) - Hanoi site

1. Medicine Demand Prediction (Japanese Clients) - Data Science Intern

- Developed time-series models and tree-based models to predict the demand for drugs in a Japanese drugstore chain.
- Analyzed and cleaned data
- Implemented AI models like XGBoost, LSTM

2. Data Migration Projects (American Clients) - Data Engineer

- Built a data warehouse and data pipelines in Microsoft Azure Cloud to handle batch data from on-premise sources on a global scale in the Azure platform, for NCR Corporation - an American client
- Lifted and shifted 1-1 data from sources to Synapse by ADF pipelines
- Wrote SQL to transform data for data use cases - Revenue and Order (following business logic).
- Optimized query performance on large tables in Synapse
- Communicated with clients (American, and Indian clients) to get requirements, and to consult solutions for technical issues.

03/2020 - 07/2020

HBLAB

AI Engineer Intern - Hanoi site

1. Receipt OCR (Japanese Clients):
- Implemented an OCR system to detect information in the images of receipts of a Japanese retail chain.
 - Implemented Object Detection to find the location of text boxes like payments boxes, date-time boxes, tax boxes, etc...After that, the OCR model would read text boxes to get the contents of each box.
 - Implemented object detection to find which images include abnormalities like handwritten, red lines, 2-part receipt images
 - Used OpenCV to pre-process images and post-process

SKILLS

Advanced

- Data Analysis(Banking, Manufacturing, Time Series, Retail-Good Delivery, etc.)
- AI Models (Machine Learning Models, Neural Network Models)
- MLOps, AI-related services in Google Cloud Platform

Intermediate

- Computer Vision(OCR, Object Detection)
- SQL
- Data Modelling
- Azure(Synapse, LogicApp, ADF)

Basic

- Data Visualization (Tableau - Looker)
- AWS(S3, Sagemaker)
- Software(PHP, Java, JavaScript)

SOFT SKILLS

- English Skills - Fluent
- IT skills (Git, Docker, Offices) - Proficient
- Teamwork, Communication, and Presentation skills, Consulting skills - Advanced

INTERESTS

Football, reading books, economics, movies, hanging out with friends