

Dương Công Hậu

Data Scientist & AI Engineer

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EDUCATION BACKGROUND

Hanoi University of Science and Technology

Major: Computer Science

GPA: 3.2

WORK EXPERIENCE

DAC Data Technology Vietnam

09/2021 - 12/2021

Machine Learning Intern

Image segmentation in ad image processing

VIETTEL CYBERSPACE CENTER

03/2022 - 06/2022

AI Engineer Intern

Research about Triton Inference Server

VinBigData

07/2022 - 02/2023

Vingroup AI Engineer Training Program

AI Engineer

Build MRC model for Aspect Based Sentiment Analysis, deploy model with flask, torchserve, triton and compare performance

Falcon Games Studio

03/2023 - 02/2024

Data Scientist

- Personalized item recommendation in game mobile

Research problems, methods about recommendation system in game mobile

Mined large log datasets, analyzed statistics and built a recommendation model based on paper "Neural Attention Session-based Recommendation"

Increased in-app purchase by 20% for new users

- Player churn prediction

Have researched problems, methods about churn prediction in game mobile

Mined data, analyzed statistics and built models to predict whether players will leave after 1 day or not

- Analyze player behavior data to increase revenue in poor countries

Analyzing player behavior data, data visualization, A/B testing to find best prices or best items for player in each countries.

- Rasa chatbot

Build a chatbot to answer FAQs in game, provide tips and tricks, customer care using RASA

SKILLS

Python

- Familiar with pytorch, scikit-learn, numpy, pandas, matplotlib, seaborn,...

SQL

- Gold badge in SQL (Hackerrank)

Machine learning, data science

- Linear regression, Logistic regression, KNN, SVM, Decision tree, clustering algorithms, bagging and boosting algorithms,...

Deep learning

- Familiar with CNN, RNN, LSTM, BERT, GPT,...

Large language models

- Prompt engineering, fine-tuning,...

Natural language processing

- Familiar with pretrained language model

Big data technologies basics

- Hadoop, Spark basics

MLOps

- Triton Inference Server, Torchserve, Flask, Fast API

BI tools

- Tableau basics

English

- 790 TOEIC

PROJECTS

Langchain chatbot

- Build a basic vietnamese chatbot with langchain and large language models

Aspect based Sentiment Analysis

- Build aspect-based sentiment analysis model based on comments dataset on e-commerce websites by fine-tuning PhoBert

- Crawl shopee data and build web app dashboard to analyze each product comments using Streamlit

Credit card fraud detection

- Analyze, handle imbalanced dataset and build prediction models based on Kaggle dataset
- Github: https://github.com/hauduong05/ML_basics/blob/main/fraud_detection.ipynb

Shopee Sales Forecasting

- Analyze data, build prediction models to predict sales of 15 items on shopee
- Github: https://github.com/hauduong05/shopee_sales_prediction

Chatbot about Covid19

- Scrape covid QA data, build chatbot using seq2seq with attention model
- Github: <https://github.com/hauduong05/chatbot>

Name Entity Recognition in Extracting CV

- Using BiLSTM - CRF to recognize name entity in CV
- Github: https://github.com/hauduong05/NER_Extract_CV

Movie Recommendation System

- Using collaborative filtering based on MovieLens 25M dataset
- Github: https://github.com/hauduong05/Movie_Recommendation