Bùi Tùng Dương

DATA ANALYST FRESHER

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INTRODUCTION

During my academic journey, I have acquired a strong foundation in data manipulation, data visualization, and machine learning techniques. I have honed my expertise in programming languages like Python, which allows me to efficiently extract, clean, and analyze data from diverse sources. Moreover, I am skilled in building serving APIs with Flask or FastAPI to deploy my ML models. Additionally, I have actively participated in numerous AI competitions spanning several fields, such as Machine Learning, Computer Vision, Time-series analysis, NLP, and more. I am excited to leverage my analytical skills, passion for data-driven insights, and determination to contribute to the success of your esteemed organization. By joining your team, I aim to apply my knowledge and expertise to tackle real-world challenges and support data-driven decision-making.

SKILLS

Python (advanced)

- Pandas
- Matplotlib/Seaborn
- Scikit-Learn
- Tensorflow
- Flask/FastAPI

SQL Server (intermediate)

MS Power BI (beginner)

CERTIFICATE

TOEIC
11/2020

Score 710

- Proficient in reading and understanding documents
- Moderate writing skills

EXPERIENCE

AI RESEARCH INTERN

VNNET HAI PHONG 08/2022 - 11/2022

- Research on fire detection systems using object detection
- Improving the dataset

EDUCATION

BACHELOR OF INFORMATION TECHNOLOGY

VIETNAM MARITIME UNIVERSITY 10/2020 - Present

GPA: 3.65/4.00

PROJECTS

HANOI HOUSING PRICES PREDICTION

- Clean a dataset about real estate sales in Hanoi, Vietnam
- Perform some feature engineering techniques and exploratory data analysis
- Create a model to predict the price of each house

KAGGLE: GLOBAL WHEAT DETECTION (YOLOV8)

- Build an object detection model using YOLOv8 nano
- Apply some data augmentation techniques to improve the object detection score by 1.326%

PRIZES

UNDERGRADUATE RESEARCH 2022 - 2023

3rd place

06/2023

Vietnam Maritime University

THE 3RD ANNUAL INTERATIONAL DATA SCIENCE & AI COMPETITION 2022

1st Place

06/2022

ISOD

DATA-CENTRIC AI COMPETITION 2021

Prospective prize

12/2021

FPT Software

CLASSIFY HANDWRITTEN CHARACTERS IN ANCIENT JAPANESE MANUSCRIPTS

- Build a custom CNN model based on the VGG16 architecture to classify the Kuzushi-MNIST dataset, which has a small size of 28x28

IDENTIFICATION OF INDIVIDUALS WEARING MASKS

- Using ArcFace to detect and regconize identity of faces
- Apply various data augmentation techniques, adding masks to the images
- Applying two threshold techniques (global threshold and local threshold) to improve the robustness of the predictions
- Apply sliding window to improve the stability of the predictions

WATER POTABILITY PREDICTION

- Learn what factors determine the safety of drinking water
- Create a ML model to predict whether a sample of water is drinkable or not

COMPETITIONS

MLOPS MARATHON 2023 (MPOPSVN)

06/2023 - Present

- Analyze dataset and build ML models
- Synthesizing and monitoring versions and performance of ML models
- Build and deploy predictor serving API
- Monitor the performance of models after deploy

AIR QUALITY FORECASTING CHALLENGE (AI4VN)

06/2022 - 12/2022

- Analyze time series Air quality dataset
- Build ML models base on exist weather station data to predict others weather station data

COMPANY BANKRUPTCY PREDICTION (THE 3RD ANNUAL INTERATIONAL DATA SCIENCE & AI COMPETITION 2022)

1st Place 03/2022 - 06/2022

- Apply feature engineering and various ML techniques to deal with the imbalance problem

DATA-CENTRIC AI COMPETITION 2021 (FPT SOFTWARE)

Prospective Prize 10/2021 - 12/2021

- Fix annotations and apply data augmentation techniques
- Apply pseudo-labeling to extend dataset
- Create background images (no objects) to reduce false-positive rating