Luke Do

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Objective!

With experience in Natural Language Processing and Database Management, along with an MSc in Computer Science specializing in Data Science and AI, I believe that I have a strong foundation in machine learning, data analytics, and programming to any organization. I've always consider myself as a hardworking individual with a strong willingness to learn and innovate continuously. Therefore, I am seeking an opportunity to develop practical experience in the growing field of Data Science.

Technical Skills

- Programming: Python, SQL, R, C++
- Machine Learning: LLM, LangChain, TensorFlow, PyTorch, scikit-learn, OpenCV
- Others: Google Colab, GitLab, Hypothesis Testing, MySQL, PySpark, Selenium, Flask, Matplotlib, Numpy, Pandas, Seaborn

Education

The University of Sydney, MSc in Computer Science (Data Science and AI) July 2024 – July 2026 (Expected)

- **Coursework:** Natural Language Processing, Machine Learning and Data Mining, Data Engineering, Computational Statistical Methods, Visual Analytics

Hanoi University of Science and Technology, BSc in Electronics and Telecommunication (Computer Engineering) Sep 2018- Sep 2023

- **Coursework:** Data Structure and Algorithms, Linear Algebra, Probability and Statistics, Calculus 1-3, Artificial intelligence and Applications

Working Experience

Ai Engineer Intern, CognixAI September 2024 - Current

- Develop an Automated Content Marketing AI tool for LinkedIn to enhance engagement and lead generation
- Built an AI-driven video generation pipeline that transforms LinkedIn posts into engaging video content using models like D-ID for lifelike avatars and voice cloning
- Developed LinkedIn API integration, allowing seamless video posting, automated engagement, and scheduled content publishing directly from the platform.

Research Assistant, Hanoi University of Science and Technology (AFOSR Lab) March 2023- April 2024

- Participated in researches and weekly meetings about Computer Vision and Artificial Intelligent.
- Analyzed model's performance and contributed and conducted to publications.
- Developed deep domain knowledge and professional skills in research area.
- Interpreted statistical and graphical analysis of data.
- Familiar with several deep learning models such as Transformers, TimeSformer,...

Publications

Is Transformer Good for Vision-Based Human Action Recognition with Limited Data Source September 2024

Thanh-Hai Tran, Vuong-Loc Do

10.1007/978-981-97-5504-2$_1$5

Projects

Source: github.com/DoVuongLoc2642

Machine Learning and Data Mining Project

- Applies the MLP, AlexNet, and VGG-5 deep learning models to the handwritten character dataset, namely EMNIST, in order to explore the performance of different neural architectures on image classification tasks.
- Data Exploration: Analyse the EMNIST dataset with EDA technique to get meaningful insight for a better preprocessing stage
- Technical skills and knowledge: Python, CNN, Dimensionality Reduction, Tensorflow, scikit-learn, Matplotlib, Seaborn, Wandb, GridSearchCV, Data Augmentation, Normalization

Data Science Salary Prediction Project

- Collected, cleaned raw data from Internet and built models to predict data science average annual salary. This model predict salary corresponding to diverse data science's jobs like Data Scientist, Data Analyst, MLE,... to help people have an understanding about this field and negotiate their income when it comes to interview.
- Built a flask API endpoint that was hosted on a local webserver to simulate interaction between a client and server in real-time
- Technical skills and knowledge: Python, scikit-learn, Pandas, Matplotlib, Seaborn, Selenium, Flask, Json, Pickle, Random Forest, Support Vector Machine

Gesture Recognition from Motion Sensor Research Project

- Activity recognition using wearable sensors applies technology to monitor user behavior. This project focused on research using a state-of-the-art deep learning technique called TimeSformer, which applies Transformer on video data. TimesFormer is used for experiments and evaluation on a hand gesture recognition dataset called MuWiges Dataset.
- Using machine learning and data mining techniques to fine-tune the TimeSformer to fit the given dataset based on actions type and perform pattern recognition on MuWiges Dataset.
- Technical skills and knowledge: Python, PyTorch, scikit-learn, Open-CV, Tensorboard, Matplotlib

Face Detection With YOLOv5 Project

- A class project requires doing research and develop the system "Face detection using YOLOV5 model. Main responsibility: Studied and implemented Face Detection processes using Yolov5 Face detection to detect faces on images
- Technical skills and knowledge: Python, Google Colab, Roboflow, Numpy, Pandas