LUONG MINH NGUYEN

AI Researcher Engineer, Data Scientist

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EXPERIENCE

Computer Vision Engineer
TMA Solution

📅 Apr 2022 – Jul 2022   📍 District 12, Ho Chi Minh

- **Objective:** use AI Algorithms to solve the problem in real life.
- **Responsibility:** propose ideas, implement algorithm to demo for team leader.
- **Outcome:**
  - Engineer Skillsets.
  - Acknowledge the impact of Data Augmentation.
  - Learn how to combine multiple models for solving a particular problem.

NLP Engineer
Wisdom Robotics

📅 Jul 2022 – Sep 2022   📍 Thu Duc District, Ho Chi Minh

- **Objective:** Apply NLP Algorithms for solving Customer's problems (Chatbot, Machine Translation, Optical Character Recognition).
- **Responsibility:** propose ideas, meeting and extract customer's requirements, implement algorithm and represent for customer.
- **Outcome:**
  - Experiment with real projects.
  - Learn how to discuss with customers and bring their idea to be practical.
  - NLP Knowledge.

AI/Software Researcher Intern
Katalon Inc

📅 Sep 2022 – Dec 2022   📍 Ho Chi Minh, Vietnam

- **Objective:** use AI-based techniques to improve solutions for autonomous test generation.
- **Responsibility:** propose ideas, implement algorithm, read and write paper.
- **Outcome:**
  - publish a paper as fourth author at IEEE/ACM International Conference on Automated Software Engineering (ASE 2022).
  - Software Engineer, Software Testing Fundamental, Web Fundamental.

ABOUT ME

"An independent and self-motivated student, try to learn new things everyday to improve my Knowledge and Skills to become a Highly Qualified AI Engineer/Researcher. I am willing to learn new things that will help me to improve my career path."

MOST PROUD OF

🏆 **2 Bronze Medals in 30/4 Mathematics Olympiad (2016-2017)**
Annual Contest for High School Student

TECH SKILLS

`C/C++, Python`   `Git, Github, Linux Bash`
`SQL`

`Numpy, Pandas, Matplotlib, Seaborn, Sklearn`
`Tensorflow, Pytorch`
`Spacy, NLTK, OpenCV`

LANGUAGES

Vietnamese
Native or Bilingual Proficiency

English
Professional Working Proficiency

EDUCATION

Bachelor of Computer Science
VNUHCM - University of Science

📅 2019 – 2023 (Expected)

Courses:
- Fundamental Machine Learning
- OOP
- Deep Learning for Data Science
- Introduction to AI
- Introduction to Data Science

PROJECTS

People Counting

Company Project

📍 TMA Solution

- **Description:** using model Yolov5 for object detection task and Using Deep SORT Algorithm for tracking object.
- **Techstack:** pytorch, cv2.

Racoon Tracking

Self-Learning Project

- **Description:** Customize the Object Detection API of Tensorflow to train in the custom Dataset (Racoon Dataset - include Racoon Images and corresponding Bounding Box).
- **Techstack:** Tensorflow, cv2, numpy, pandas, Tensorboard.

People Detection

Company Project

📍 TMA Solution

- **Description:** Using 2 models, Resnet50 and Yolov5, Yolov5 for detecting people and Reset50 for classifying if those people are children or adults. Augment and Enriching dataset for improving the model's accuracy.
- **Techstack:** MMLab, cv2, numpy, albumentations.

Web Crawling

Class Project

- **Description:** Use API or parse HTML to extract Playlist, User, and Track information from SoundCloud. After that, using crawled data to explore and extract insight into the trend or behavior of the customer.
- **Techstack:** Selenium, Json, Pandas.

Personality Chatbot

Company Project

📍 Wisdom Robotics

- **Description:** Build a chatbot with its personality based on the GPT2 model and finetune it on a customized dataset.
- **Techstack:** pytorch, json, tensorboard, pytorch lightning.

WGAN Chatbot

Company Project

📍 Wisdom Robotics

- **Description:** Build a generative model (Seq2Seq structure) and integrate it into WGAN to improve its performance.
- **Techstack:** pytorch, pytorch lightning, transformers.