

**Chuong Hoa Loe**

**Al, Machine learning and Data science**

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# About me

My specialties are machine learning (supervised learning, unsupervised learning), data science, backend development. Programming is my love and also my best skill.

Sett-learning, good English and well disciplined help me handle a lot of challenges.

# Working experiences

Over 5 years of coding and 4+ years working with Python. I can develop many kinds of projects based on Python language quite confidently. I focus on data science and machine learning. In Data science, my responsibilities are about ETL ,EDA, feature engineering, data visualization and building high quality prediction systems. I am familiar with many kinds of databases, framework for large-scale data processing and cloud platforms. My machine learning knowledge is based on critical mathematics background and hard practices. I am currently working on building and training the models, deploying the models on multi platforms such as docker, server API and applications. I am also using C++ for the requirements need fast and powerful.

# Languages

Python,CUDA,C++,Bash

# Development tools

Vscode, Atom, JupyterNotebook, Jupyterlab, Google Colab,Git,GitHub,Gitlab,etc.

# Machine learning framework

Tensorflow, Pytorch, Scikit-learn.

# Data Platforms

PostgresQL, MongoDB, SQLite, Spark.

# Data science framework

Numpy, Pandas.

# Data visualization

Matplotlib, Seaborn, PowerBl,etc.

# Data crawling

Selenium,Beautifulsoup,requests-html

# Computer vision

Opencv

# Testing tool

pytest

# Platform and environments

Conda, Docker,Google Cloud,API service,Heroku,etc.

# OS

Linux,Windows

# Projects

**Name:** confidentiality **Company:** Greystone Data systems

**Role:** Machine learning engineer

**Time:** Dec-2022

**Description:** Building a high accuracy detection object solution by machine learning.

**Responsibility:** Research, feature engineering, implement the ideas to code, building and training machine learning model, validate and testing, cooperate with the other teams to release a complete solution.

**Name:** ViOCR **Company:** Vastbit co.ltd **Time:** Sep-2022 to Nov-2022

**Role:** Al engineer and backend developer

**Description:** Building REST API server for checking identity cards in Vietnamese language.

**Responsibility:** Building solution, developing database server and APls service. Apply OCR machine learning model for detection and recognition of the content. Improve the results by tuning the model, preprocessing and post-processing, packaging and deploying the product.

**Name:** SmartVision **Company:** iteam1 learning engineer and backend developer

**Time:** June-2022-July-2022 **Role:** Machine

**Description:** Use lnceptionV3 and LSTM model for making the caption in the images.This project is a combination of CNN and RNN architecture in Deep learning. It can be implemented on a web-server or real time application.

**Responsibility:** Building and training model, develop machine learning server for predicting the caption of posted image, and integrate to real-time application.

**Name:** Jetboy robot **Company:** Vastbit co.ltd

**Role:** Al engineer

**Time:** Dec-2020 to Nov-2022

**Description:** Jetboy is a robot integrated A.I.Jetboy has ability to do low-level machine learning applications as similar as image recognition, object detection.semantic segmentation, pose estimation, etc or higher level missions as be an assistant.

**Responsibility:** Research, define concepts, building the architecture, building the protocols, applying and simulating algorithms. Testing solutions in real environment. UI/UX design.

Apply machine learning model to specific function, cooperate with the other teams to release a complete solution. Packaging and deploy product.

**Name:** SmartStock **Company:** iteam1 learning engineer, Backend developer

Time:Aug-2021 to Sep-2021 **Role:** Machine

**Description:** Apply the deep learning RNN models to predict series data, build a

web-application for predicting input data and having the ability to train with your own custom datasets.

**Responsibility:** Building and training RNN models, validating prediction and tuning models parameters. Backend development.

**Name:** UNet lung segmentation **Company:** iteam1

**Role:** Machine learning engineer

**Time:** June-2021 to Aug-2021

**Description:** Medical Image Segmentation is the process of automatic detection of boundaries within images. Using CNN with U-Net architecture.

**Responsibility:** Building and training RNN models, validating prediction and tuning models parameters.

**Name:** face-app **Company:** VV Solutions Machine learning engineer

**Time:** Oct-2020 to Mar-2021 **Role:**

**Description:** This face recognition application detect and recognize user face, record to the database, connect to API server.

**Responsibility:** Develop and integrate face recognition model to software application, cooperate with the other teams to deploy product.