Ngo Phu Huu Dai **Son**

Computer Science Student

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"Be the change that you want to see in the world."

Summary

I'm a computer Science student at Ho Chi Minh University of Science. Good knowlegde in Data structure and algorithm. 7+ years experience in competitive programming. Super nerd who loves Vim, Linux and using terminal and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Education

HCMUS(Ho Chi Minh University of Science)

HCMC, Vietnam

Bachelor student in Computer Science

Aug. 2018 - ...

- GPA: 8.11/10

Skill

Hard Skill

Some technical skills

- C/C++
- Python
- Data structures
- Algorithms
- Math
- git/github
- Research
- Vim
- MS SQL server
- Familiar with linux operation system

Soft Skill

Some social skills

- Teamwork
- Time management
- Critical thinking
- Seft learning

Honors & Awards

2019 **Second Prize**, HCMUS Student Informatics Olympic Competition — *HCMC, Vietnam*

2018 **Semi Final**, HCMUS The bravery of IT contest — *HCMC, Vietnam*

2018 **First Prize**, HCMUS "Young Citizen's Idols" Drama contest — *HCMC, Vietnam*

Experience

Predicting Health Care Costs

HCMUS, Vietnam

Jupyter Notebook, Scikit-learn

May. 2021 - May. 2021

- *Description*:
  - Predict Health Care Costs via BMI, Height, Weight, is smoke, gender.
  - Make some EDA.
  - implement Linear Regression.
  - implement Random Forest Regression.
  - implement Gradient Boosting Algorithm.
- *Reponsibilities*:
  - Planing
  - make som EDA.
  - implement Gradient Boosting Regression.

Prolog Implementation

HCMUS, Vietnam

Python, Prolog, First-order Logic, DFS

Nov. 2020 - Nov. 2020

- *Description*:
  - implement Prolog programming language
  - Design Knownledge base (facts and rules) of British Royal family tree.
  - Run some query to test the algorithm.
- *Team size*: 3
- *Position*: Leader & Developer
- *Reponsibilities*:
  - Planing
  - Implement Prolog
  - Implement design facts and queries for testing

Face Recognition

HCMUS, Vietnam

Google Colab, Python, Tensorflow, Reseach

May. 2021 - May. 2021

- *Description*:
  - Research some basic technique in Face Recognition (PCA, LDA, SVM,..).
  - Research for some Dataset for Face Recognition problem.
  - Research for a state of the art method in Face Recognition.
  - Run a simple demo (No need to self-implementation)
- *Team size*: 3
- *Position*: Leader & Developer
- *Reponsibilities*:
  - Planing
  - Research for CNN (Convolutional Neural Network)
  - Research for ResNet (Residual Network)
  - Research for ArcFace (Additive Angular Margin Loss)
  - Run demo (Not my implementation)

Covid-19 Visualization

HCMUS, Vietnam

Tableau, Jupyter Notebook, Pandas, Numpy, Matplotlib

May. 2021 - May. 2021

- *Description*:
  - Crawl covid-19 data from worldometers website.
  - Analyze and visualize using Jupiter Notebook.
  - Analyze and visualize using Tableau.
- *Team size*: 5
- *Position*: Leader, Designer & Developer
- *Reponsibilities*:
  - Planing
  - Crawl data
  - Preprocessing
  - Compute and Visualize Correlation Matrix
  - Implement linear regression for 2, 3, 4 variables.
  - Visualize scatter-plot and regression line of 2 variables.
  - Visualize data by worldmap with countries' longitude and latitude.
  - Draw Stacked Bar Chart for *Total Case, Death Case, Active Case* and *Recovered Case* by matplotlib.
  - Draw worldmap, bar char by Tableau.

Data Mining

HCMUS, Vietnam

Jupyter Notebook, Weka, Pandas, Numpy, Matplotlib

Dec. 2020

- *Description*:
  - Preprocess house-price dataset using Weka & Python (Count, fill missing data, normalization,...)
  - Analyzed data and Mining association rules in churn dataset using Apriori algorithm
  - Classified hawks dataset by Naive Bayes, Decision Tree using Weka and clustered iris dataset by K-Means and K-Medoids using Python.
- *Team size*: 2
- *Position*: Leader & Developer
- *Reponsibilities*:
  - Planing
  - Tuning Decision Tree in Weka
  - Tuning Apriori algorithm in Weka
  - Implement K-Mean and K-Medoids in Python