Tuan-Dat Le

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Computer scientist looking for a position at a R&D lab, where I can apply my knowledge about Computer vision, Reinforcement learning to support internal and external communication

Education

- VNUHCM - University of Science
- BCs in Computer Science, Honor program
- GPA: 8.5/10

Skills

- Programming languages: Python, C++
- Framework: PyTorch
- Research: Computer vision, Reinforcement learning
- Soft skills: Critical thinking, Creativity, Emotional intelligence, Adoptability

Projects

- Cart-pole Game — Leader — 20/08/2020 - 20/9/2020
  - Cartpole - known also as an Inverted Pendulum is a pendulum with a center of gravity above its pivot point. It's unstable, but can be controlled by moving the pivot point under the center of mass. The goal is to keep the cartpole balanced by applying appropriate forces to a pivot point.
  - Team size: 1 member
  - Responsibility:
    - Creating an agent that is capable of learning through trial and error and ultimately solving the cartpole problem.
  - Tech stacks:
    - Deep Q-learning
    - Deep Neural Network
    - Buffer replay in DQN
- AIC HCMC — Member — 10/07/2020 - 05/09/2020
  - There are four types of vehicles in the road. In this project, the mission is counting the exact number of each type vehicles moving in the specific direction.

  - Team size: 5 members
  - Responsibility:
    * Labeling the objects in videos of the dataset.
    * Training model to detect the vehicles occuring in the videos
  - Tech stacks:
    * Using YOLOv4 model to detect the vehicles appearing in the videos.
    * Using LabelImg to label the vehicles in the dataset.

- Self-drving Car — Leader — 20/01/2020 - 28/04/2020
  - There is a car equiped with 5 ultra-sonic sensors to measure the distance between the car and walls on two side of road. The mission is making the car autonomously run to the destination.
  - Team size: 2 member
  - Responsibility:
    * Determinig the algorithm and model used to solve the problem
    * Building the neural network
    * Tuning the hyperparametes so that the weights of the model can converge
  - Tech stacks:
    * Using genetic algorithm to optimize the weights of the model
    * Using a neural network with 3 fully connected layers.
  - Link: github.com/ledat2110/Self-driving-Car-using-Neural-Network

- Image classification — Leader — 15/01/2020 - 20/03/2020
  - This is a school project. The mission is building a model to classify the class of the image in the dataset. Each image contains an object with specific class. There are 10 classes at all.
  - Team size: 1 member
  - Responsibility:
    * Building a CNNs, which is capable of classifying the objects with the accuracy above 95%.
  - Tech stacks:
    * Convolutional neral network
  - Link: github.com/ledat2110/cs231n

Achivement

- Top 35 — AIC HCMC 2020
- Top 27 — VNUHCM - University of Science Challenge 2020
- Top 27 — VNUHCM - University of Science Challenge 2019