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 <https://clairelee22.github.io/>





Machine learning engineer skilled in using Python, Tensorflow, Keras and PyTorch to build smart models that learn to process information with exceptional efficiency. Passionate to explore new algorithms and deploy them to models.

Skills

Programming Languages

Python 
Java 
C++ 
Go 

Frameworks and Libraries

Tensorflow 
Keras 
PyTorch 
Scikit-learn 

Projects

Dog Breed Classifier <https://github.com/ClaireLee22/Dog-Breed-Classifier>

- Built a Convolutional Neural Network(CNN) to classify dog breeds.
- Overlaid filters with dog's ears, nose and tongue if human faces were detected.
- Turned the algorithm into a web app using Flask.

Generate Face <https://github.com/ClaireLee22/Generate-Face>

- Create a Generative Adversarial Networks(GANs) to generate new images of faces.
- Executed the optimization for generator twice to prevent the discriminator loss from being too low.

Teach a Quadcopter How to Fly <https://github.com/ClaireLee22/Teach-a-Quadcopter-How-to-Fly>

Used Deep Deterministic Policy Gradients (DDPG) method to build the agent that can learn takeoff task on its own.

- Craft reward functions to motivate or penalize the agent are critical to its performance.

Work Experience

Material/Product Engineer

Jan. 2015 – Mar. 2018

Cymmetrik Enterprise Co., Ltd, San Jose, CA

- Prototyped packaging samples for Nest, Google, Cisco, Microsoft etc. in 24 hours.
- Improved local material suppliers' relationships and managed local material warehouse.
- Worked with cross-functional groups for product development.

Research and Development Engineer

Feb. 2011 – Aug. 2012

AUO, Hsinchu, Taiwan

- Explored and verified potential new products and technologies.
- Implemented different process conditions in the new product development.

Education

Engineering Management, M.S *The University of Texas at Arlington*

Jun. 2013 - Dec. 2014

Certification of Computer Programming *UCSC Silicon Valley Extension*

Mar. 2018 - Dec. 2018

AI Programming with Python Nanodegree *Udacity*

Apr. 2018 - Jul. 2018

Deep Learning Nanodegree *Udacity*

Sep. 2018 - Jan. 2019

Chemical Engineering, M.S *National Tsing Hua University*

2008 - 2010