



# Yu-Min(Claire) Lee 李郁旻

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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