

EE 104 Documentation

Lab 6

Youtube Link:

CNN Training <https://youtu.be/b2wDEAZxiic>

CNN Test Image recognition <https://youtu.be/sfzYLp5MIHw>

Chat GPT <https://youtu.be/LyxuLIOXXDI> <https://youtu.be/nLAX1Mbzh7M>

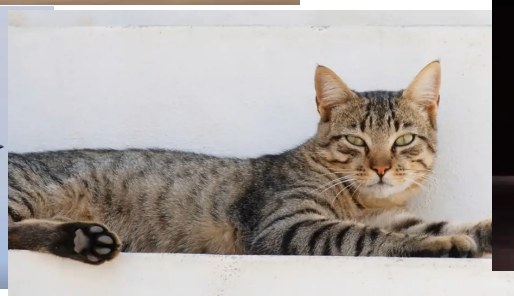
Open AI Hello World <https://youtu.be/nr9OdqKf1U>

Game Dev <https://youtu.be/429lCoRdiRg>

CNN Training and Processing

```
Epoch 199/205
2500/2500 [=====] - 188s 75ms/step - loss: 0.6632 -
accuracy: 0.7848 - val_loss: 0.5379 - val_accuracy: 0.8201
Epoch 200/205
2500/2500 [=====] - 188s 75ms/step - loss: 0.6582 -
accuracy: 0.7881 - val_loss: 0.5014 - val_accuracy: 0.8311
Epoch 201/205
2500/2500 [=====] - 188s 75ms/step - loss: 0.6556 -
accuracy: 0.7864 - val_loss: 0.5008 - val_accuracy: 0.8335
Epoch 202/205
2500/2500 [=====] - 187s 75ms/step - loss: 0.6521 -
accuracy: 0.7870 - val_loss: 0.5206 - val_accuracy: 0.8268
Epoch 203/205
2500/2500 [=====] - 188s 75ms/step - loss: 0.6573 -
accuracy: 0.7862 - val_loss: 0.5010 - val_accuracy: 0.8313
Epoch 204/205
2500/2500 [=====] - 188s 75ms/step - loss: 0.6564 -
accuracy: 0.7885 - val_loss: 0.5133 - val_accuracy: 0.8265
Epoch 205/205
2500/2500 [=====] - 188s 75ms/step - loss: 0.6526 -
accuracy: 0.7889 - val_loss: 0.5005 - val_accuracy: 0.8295
313/313 - 7s - loss: 0.5005 - accuracy: 0.8295 - 7s/epoch - 22ms/step
0.8295000195503235
```

CNN Image recognition test



```
In [32]: runfile('C:/Users/Damion Chau/Desktop/Lab6/test_image.py', wdir='C:/
Users/Damion Chau/Desktop/Lab6')
1/1 [=====] - 0s 146ms/step

Prediction: This image most likely belongs to cat
1/1 [=====] - 0s 17ms/step

Prediction: This image most likely belongs to airplane
1/1 [=====] - 0s 21ms/step

Prediction: This image most likely belongs to automobile
1/1 [=====] - 0s 18ms/step

Prediction: This image most likely belongs to bird
1/1 [=====] - 0s 21ms/step

Prediction: This image most likely belongs to truck
```

Hello World to ChatGPT

Enter your question (or type 'quitme' to quit):
describe the color orange

Orange is a warm, vibrant color that is somewhere between red and yellow on the color wheel. It is often associated with energy, warmth, and sunshine. Orange is also a very reminiscent color, traditionally associated with autumn, harvest, and orchards.

Enter your question (or type 'quitme' to quit):
describe the color orange

Orange is a bright, vibrant color that is a combination of red and yellow. It is often associated with warmth, energy, and enthusiasm. It is also the color of the sun and can be seen in many fruits and vegetables.

Hello World to OpenAI



Renaming Generator

Generate names

Captain Chimpsalot, Super Simlan, Major Monkeyman, The Amazing



Game Development

