CatdogNet-Keras Convnet Starter: https://github.com/Jinchili/Job\_search\_function.git

packages:cv2, keras

Data manipulation:

def read\_image(file\_path):

img = cv2.imread(file\_path, cv2.IMREAD\_COLOR) *#cv2.IMREAD\_GRAYSCALE*

return cv2.resize(img, (ROWS, COLS), interpolation=cv2.INTER\_CUBIC)

def prep\_data(images):

count = len(images)

data = np.ndarray((count, CHANNELS, ROWS, COLS), dtype=np.uint8)

for i, image\_file **in** enumerate(images):

image = read\_image(image\_file)

data[i] = image.T

if i%250 == 0: print('Processed {} of {}'.format(i, count))

Net:

cov2D+ pooling + flatten + dense

\*Earlystopping: part of keras

loss: “error matrix”

Keras Warm-up: Cats vs Dogs CNN with VGG16 db012c

Packages: Keras, seaborn, pandas,

Data preparing:

|  | label | id | filename |
| --- | --- | --- | --- |
| 3766 | cat | 7 | ../input/dogs-vs-cats-redux-kernels-edition/tr... |
| 1396 | cat | 13 | ../input/dogs-vs-cats-redux-kernels-edition/tr... |
| 613 | cat | 15 | ../input/dogs-vs-cats-redux-kernels-edition/tr... |

Np.stack(np.ndarrays,axis= where to locate the stack)

\*Function:os.path.basename()