In [1]:

```
from keras.models import load_model
import numpy as np
```

```
Using TensorFlow backend.
```

In [2]:

```
import cv2 #computer vision package
```

In [3]:

```
model = load_model('cat_dog_elephant_cnn.h5')
```

In [4]:

```
from skimage.transform import resize
```

In [5]:

```
def detect (frame):
    try:
        img = resize(frame, (64,64))
        img = np.expand_dims(img, axis = 0)
        if (np.max(img)>1):
            img = img/255.0
        prediction = model.predict(img)
        print(prediction)
        print(model.predict_classes(img))

    except AttributeError:
        print('Shape not found')

        # since our images are given in 3 dimensions, so we are now expanding th
e dimensions long the row
```

In [6]:

```
frame = cv2.imread(r'dataset/test_set/elephant/ea36b20b2ef1073ed1584d05fb1d4e9fe
777ead218ac104497f5c978a4efb4bb_640.jpg')
#load the image to the function and use 'r' to omit any unnecesaary space in pat
h

data = detect (frame)
```

```
[[0.6571952]]
[[1]]
```

In [ ]: