Summary of Training Runs

The script's input parameters

```
Description: This configuration file is for the CFAR-10 data set. The CFAR32 data
    set consists of pictures of size 32x32. The model will have to accomodate these
    dimensions
dropout_percentage: 10
dropout_percentage_range:
evaluate_the_model: 0
fit_the_model: 1
\verb|machine_dump_file_name: example_1.keris.trained.machine.bin|\\
machine_dump_file_name_base: kera.cifar-10.trained
mkernel_regularizer_12: 0.1
mkernel_regularizer_12_range:
- 0.1
number_of_epochs: 1
training_data:
    number_of_hidden_layers: 1
    number_of_hidden_neurons: 4
    number_of_input_neurons: 3
    number_of_outputs_neurons: 1
    number_of_training_iterations: 10000
    training_data_file_name: example_1.data.train.cvs
validation_data: example_1.data.validate.cvs
verbose: 1
```

The class / runs parameters

```
dropout_percentage: 0.1
mkernel_regularizer_12: 0.1
number_of_epochs: 1
```

The model summary

```
Model: "sequential"
```

Layer (type)	Output Shape	Param #
dense (Dense)	(None, 12)	48
dense_1 (Dense)	(None, 8)	104
dense_2 (Dense)	(None, 1)	9
Total params: 161 Trainable params: 161 Non-trainable params: 0		

The model configuration

```
"class_name": "Dense",
"config": {
  "activation": "relu",
  "activity_regularizer": null,
  "batch_input_shape": [
   null,
    3
  "bias_constraint": null,
  "bias_initializer": {
    "class_name": "Zeros",
    "config": {}
  "bias_regularizer": null,
  "dtype": "float32",
  "kernel_constraint": null,
  "kernel_initializer": {
    "class_name": "GlorotUniform",
    "config": {
      "seed": null
  "kernel_regularizer": null,
"name": "dense",
  "trainable": true,
  "units": 12,
  "use_bias": true
"class_name": "Dense",
"config": {
  "activation": "relu",
  "activity_regularizer": null,
  "bias_constraint": null,
  "bias_initializer": {
    "class_name": "Zeros",
    "config": {}
  "bias_regularizer": null,
  "dtype": "float32",
  "kernel_constraint": null,
  "kernel_initializer": {
    "class_name": "GlorotUniform",
    "config": {
      "seed": null
  "kernel_regularizer": null,
  "name": "dense_1",
  "trainable": true,
  "units": 8,
  "use_bias": true
"class_name": "Dense",
"config": {
  "activation": "sigmoid",
  "activity_regularizer": null,
  "bias_constraint": null,
  "bias_initializer": {
    "class_name": "Zeros",
    "config": {}
  "bias_regularizer": null,
  "dtype": "float32",
  "kernel_constraint": null,
  "kernel_initializer": {
```

The model layers and weights

```
[array([[-0.471183 , 0.54156375, 0.4205683 , 0.15397334, 0.35611963,
         0.4920199 , 0.2656153 ,
-0.13069677, 0.0544284 ],
                        0.2656153 , -0.38662517, 0.6116141 , 0.48599604,
         [ \ 0.20253828, \ \ 0.15518653, \ -0.2836626 \ , \ -0.2921327 \ , \ \ 0.38102898, 
          0.5433402 \ , \ -0.13474585, \ -0.1514003 \ , \ \ 0.24399593, \ -0.14297415,
         -0.05142447, -0.19066095],
         [-0.49135724, \ -0.01697031, \ -0.60488796, \ -0.54907817, \ -0.0745245 \ ,
          0.6097493 , -0.06489876, 0.06784487, 0.5885602 , -0.5043822 , 0.13955222, -0.15777731]], dtype=float32), array([ 5.0607116e-05, -4.6171498e-04, 0.0000000e+0
       -2.7473309e-04, 1.2399205e-03, 5.3225760e-04, 0.0000000e+00, 2.0910920e-04, 1.4481126e-06, 8.6559064e-04, 0.0000000e+00],
      dtype=float32), array([[ 0.00424274, -0.3772878 ,  0.17982161, -0.44198388,  0.5254403 ,
          0.38583308, -0.24218136, -0.38519943],
         [ -0.41420057 , \ -0.27260688 , \ \ 0.17124939 , \ -0.12595975 , \ \ 0.29605255 , 
          0.41903055, -0.40698338, -0.25589013],
        [-0.40906584, -0.16006601, -0.5437819]
                                                       0.40542793. 0.41003358.
       0.0907982 , -0.13222939, 0.29076022], [ 0.36183202, 0.45113844, 0.19485521, -0.16258374, 0.3598205 , -0.49985817],
                                                       0.3565246 , 0.4810331 ,
        [-0.31408498, -0.03730392, 0.2766406, -0.11708596, 0.2389231,
       -0.31304651, 0.38613445, -0.03749746],
[ 0.5034613 , 0.40598816, -0.52790403, -0.13840446, 0.44920033,
         \hbox{\tt -0.06422786, -0.24903247, -0.0868848],}
        [ 0.20051283, 0.10962814, -0.29544422, 0.36567533, -0.41487825, -0.05119202],
                                                       0.54457426. 0.36488307.
        [-0.48232424, -0.35641462, -0.4089863,
                                                       0.26440835, 0.07071793,
         -0.26258925, -0.21256861, -0.10559532],
         [-0.01239349, \ -0.44456625, \ -0.28199974, \ -0.20837283, \ \ 0.26235816, 
          0.04578055, -0.38764024, 0.17098635],
         [-0.17531382, \ -0.43247047, \ -0.5435511 \ , \ -0.02131599, \ \ 0.4487992 \ ,
         -0.48779976, 0.45220715, 0.43230486],
       -0.19934979, -0.1307626, -0.01794332]], dtype=float32), array([ 1.6532962e-03,  0.0000000e+00,
         8.9445896e-04, -9.9109588e-05, 0.0000000e+00, 0.0000000e+00],
      dtype=float32), array([[-0.7143143],
        [ 0.78685236],
        [-0.5744895],
        [-0.59716344],
        [-0.38675374],
        [ 0.05027756],
        [ 0.3702333 ].
        [ 0.54475474]], dtype=float32), array([-0.00231489], dtype=float32)]
```