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:
- 10
evaluate_the_model: 0
fit_the_model: 1
machine_dump_file_name_base: kera.cifar-10.trained
mkernel_regularizer_l2: 0.1
mkernel_regularizer_l2_range:
- 0.1
number_of_epochs: 1
verbose: 1
```

The class / runs parameters

```
dropout_percentage: 0.1
mkernel_regularizer_l2: 0.1
number_of_epochs: 1
```

The model summary

```
Model: "sequential"
_____
Layer (type)                 Output Shape              Param #
=================================================================
conv2d (Conv2D)              (None, 32, 32, 32)        896
_____
conv2d_1 (Conv2D)            (None, 32, 32, 32)        9248
_____
max_pooling2d (MaxPooling2D) (None, 16, 16, 32)        0
_____
dropout (Dropout)            (None, 16, 16, 32)        0
_____
conv2d_2 (Conv2D)            (None, 16, 16, 64)        18496
_____
conv2d_3 (Conv2D)            (None, 16, 16, 64)        36928
_____
max_pooling2d_1 (MaxPooling2 (None, 8, 8, 64)          0
_____
dropout_1 (Dropout)          (None, 8, 8, 64)          0
_____
conv2d_4 (Conv2D)            (None, 8, 8, 128)         73856
_____
conv2d_5 (Conv2D)            (None, 8, 8, 128)         147584
_____
max_pooling2d_2 (MaxPooling2 (None, 4, 4, 128)         0
_____
dropout_2 (Dropout)          (None, 4, 4, 128)         0
_____
flatten (Flatten)            (None, 2048)              0
_____
dense (Dense)                (None, 128)               262272
_____
dense_1 (Dense)              (None, 10)                1290
=================================================================
Total params: 550,570
Trainable params: 550,570
Non-trainable params: 0
_____
```

The model configuration

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{
  "layers": [
    {
      "class_name": "InputLayer",
      "config": {
        "batch_input_shape": [
          null,
          32,
          32,
          3
        ],
        "dtype": "float32",
        "name": "conv2d_input",
        "ragged": false,
        "sparse": false
      }
    },
    {
      "class_name": "Conv2D",
      "config": {
        "activation": "relu",
        "activity_regularizer": null,
        "batch_input_shape": [
          null,
          32,
          32,
          3
        ],
        "bias_constraint": null,
        "bias_initializer": {
          "class_name": "Zeros",
          "config": {}
        },
        "bias_regularizer": null,
        "data_format": "channels_last",
        "dilation_rate": [
          1,
          1
        ],
        "dtype": "float32",
        "filters": 32,
        "groups": 1,
        "kernel_constraint": null,
        "kernel_initializer": {
          "class_name": "HeUniform",
          "config": {
            "seed": null
          }
        },
        "kernel_regularizer": {
          "class_name": "L2",
          "config": {
            "l2": 0.10000000149011612
          }
        },
        "kernel_size": [
          3,
          3
        ],
        "name": "conv2d",
        "padding": "same",
        "strides": [
          1,
          1
        ],
        "trainable": true,
        "use_bias": true
      }
    },
```

```json
{
    "class_name": "Conv2D",
    "config": {
      "activation": "relu",
      "activity_regularizer": null,
      "bias_constraint": null,
      "bias_initializer": {
        "class_name": "Zeros",
        "config": {}
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      "bias_regularizer": null,
      "data_format": "channels_last",
      "dilation_rate": [
        1,
        1
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      "dtype": "float32",
      "filters": 32,
      "groups": 1,
      "kernel_constraint": null,
      "kernel_initializer": {
        "class_name": "HeUniform",
        "config": {
          "seed": null
        }
      },
      "kernel_regularizer": {
        "class_name": "L2",
        "config": {
          "l2": 0.10000000149011612
        }
      },
      "kernel_size": [
        3,
        3
      ],
      "name": "conv2d_1",
      "padding": "same",
      "strides": [
        1,
        1
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      "trainable": true,
      "use_bias": true
    }
  },
  {
    "class_name": "MaxPooling2D",
    "config": {
      "data_format": "channels_last",
      "dtype": "float32",
      "name": "max_pooling2d",
      "padding": "valid",
      "pool_size": [
        2,
        2
      ],
      "strides": [
        2,
        2
      ],
      "trainable": true
    }
  },
  {
    "class_name": "Dropout",
    "config": {
      "dtype": "float32",
      "name": "dropout",
      "noise_shape": null,
      "rate": 0.1,
      "seed": null,
```

```json
        "trainable": true
      }
    },
    {
      "class_name": "Conv2D",
      "config": {
        "activation": "relu",
        "activity_regularizer": null,
        "bias_constraint": null,
        "bias_initializer": {
          "class_name": "Zeros",
          "config": {}
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        "bias_regularizer": null,
        "data_format": "channels_last",
        "dilation_rate": [
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          1
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        "dtype": "float32",
        "filters": 64,
        "groups": 1,
        "kernel_constraint": null,
        "kernel_initializer": {
          "class_name": "HeUniform",
          "config": {
            "seed": null
          }
        },
        "kernel_regularizer": {
          "class_name": "L2",
          "config": {
            "l2": 0.10000000149011612
          }
        },
        "kernel_size": [
          3,
          3
        ],
        "name": "conv2d_2",
        "padding": "same",
        "strides": [
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          1
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        "trainable": true,
        "use_bias": true
      }
    },
    {
      "class_name": "Conv2D",
      "config": {
        "activation": "relu",
        "activity_regularizer": null,
        "bias_constraint": null,
        "bias_initializer": {
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          "config": {}
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        "bias_regularizer": null,
        "data_format": "channels_last",
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        "filters": 64,
        "groups": 1,
        "kernel_constraint": null,
        "kernel_initializer": {
          "class_name": "HeUniform",
          "config": {
```

```json
          "seed": null
        }
      },
      "kernel_regularizer": {
        "class_name": "L2",
        "config": {
          "l2": 0.10000000149011612
        }
      },
      "kernel_size": [
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        3
      ],
      "name": "conv2d_3",
      "padding": "same",
      "strides": [
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        1
      ],
      "trainable": true,
      "use_bias": true
    }
  },
  {
    "class_name": "MaxPooling2D",
    "config": {
      "data_format": "channels_last",
      "dtype": "float32",
      "name": "max_pooling2d_1",
      "padding": "valid",
      "pool_size": [
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        2
      ],
      "strides": [
        2,
        2
      ],
      "trainable": true
    }
  },
  {
    "class_name": "Dropout",
    "config": {
      "dtype": "float32",
      "name": "dropout_1",
      "noise_shape": null,
      "rate": 0.1,
      "seed": null,
      "trainable": true
    }
  },
  {
    "class_name": "Conv2D",
    "config": {
      "activation": "relu",
      "activity_regularizer": null,
      "bias_constraint": null,
      "bias_initializer": {
        "class_name": "Zeros",
        "config": {}
      },
      "bias_regularizer": null,
      "data_format": "channels_last",
      "dilation_rate": [
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        1
      ],
      "dtype": "float32",
      "filters": 128,
      "groups": 1,
      "kernel_constraint": null,
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          "class_name": "HeUniform",
          "config": {
            "seed": null
          }
        },
        "kernel_regularizer": {
          "class_name": "L2",
          "config": {
            "l2": 0.10000000149011612
          }
        },
        "kernel_size": [
          3,
          3
        ],
        "name": "conv2d_4",
        "padding": "same",
        "strides": [
          1,
          1
        ],
        "trainable": true,
        "use_bias": true
      }
    },
    {
      "class_name": "Conv2D",
      "config": {
        "activation": "relu",
        "activity_regularizer": null,
        "bias_constraint": null,
        "bias_initializer": {
          "class_name": "Zeros",
          "config": {}
        },
        "bias_regularizer": null,
        "data_format": "channels_last",
        "dilation_rate": [
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          1
        ],
        "dtype": "float32",
        "filters": 128,
        "groups": 1,
        "kernel_constraint": null,
        "kernel_initializer": {
          "class_name": "HeUniform",
          "config": {
            "seed": null
          }
        },
        "kernel_regularizer": {
          "class_name": "L2",
          "config": {
            "l2": 0.10000000149011612
          }
        },
        "kernel_size": [
          3,
          3
        ],
        "name": "conv2d_5",
        "padding": "same",
        "strides": [
          1,
          1
        ],
        "trainable": true,
        "use_bias": true
      }
    },
```

```json
    {
      "class_name": "MaxPooling2D",
      "config": {
        "data_format": "channels_last",
        "dtype": "float32",
        "name": "max_pooling2d_2",
        "padding": "valid",
        "pool_size": [
          2,
          2
        ],
        "strides": [
          2,
          2
        ],
        "trainable": true
      }
    },
    {
      "class_name": "Dropout",
      "config": {
        "dtype": "float32",
        "name": "dropout_2",
        "noise_shape": null,
        "rate": 0.1,
        "seed": null,
        "trainable": true
      }
    },
    {
      "class_name": "Flatten",
      "config": {
        "data_format": "channels_last",
        "dtype": "float32",
        "name": "flatten",
        "trainable": 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": "HeUniform",
          "config": {
            "seed": null
          }
        },
        "kernel_regularizer": null,
        "name": "dense",
        "trainable": true,
        "units": 128,
        "use_bias": true
      }
    },
    {
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      "config": {
        "activation": "softmax",
        "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": 10,
    "use_bias": true
        }
      }
    ],
    "name": "sequential"
}
```

The model layers and weights

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          8.69834870e-02,  3.64505947e-02, -5.40620200e-02,
          7.23759234e-02, -1.08538829e-02, -5.42198792e-02,
         -7.89004862e-02, -1.00016743e-02,  6.75396398e-02,
         -4.69134673e-02,  7.62039497e-02,  4.75379638e-02,
          7.86295831e-02,  4.59228642e-02,  4.29459959e-02,
         -3.03248893e-02, -8.21611285e-02,  5.44271171e-02,
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          8.89745876e-02,  2.28643231e-02],
        [ 7.80269280e-02, -2.71425359e-02,  1.42793974e-03,
         -8.25803131e-02,  7.90532678e-02,  4.94965911e-02,
          7.74564296e-02,  1.03198528e-01,  2.42465809e-02,
          1.00548722e-01,  3.78146097e-02,  4.25176062e-02,
          8.27692598e-02, -8.50164369e-02,  4.03287373e-02,
         -8.16180632e-02,  5.51290065e-02,  1.02917805e-01,
         -3.22942883e-02, -9.56019238e-02,  8.18410516e-02,
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          7.68069774e-02, -4.15524617e-02,  2.61441525e-02,
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         -4.30615842e-02, -2.11496614e-02,  3.90643552e-02,
         -4.32355180e-02,  7.18045831e-02,  3.66992354e-02,
          3.09395161e-03,  2.90405136e-02,  8.54387134e-03,
          1.26541890e-02, -7.78185427e-02,  1.81051362e-02,
         -8.28071162e-02,  2.72945575e-02,  1.16148412e-01,
          7.90895671e-02,  1.18204154e-01, -6.49316832e-02,
         -5.64665198e-02,  5.46543188e-02,  5.55925816e-02,
          2.15981547e-02, -5.70263192e-02]],

       [[-7.57482946e-02, -2.53991466e-02,  4.84088287e-02,
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         -2.11622450e-03, -3.50857638e-02, -8.56947303e-02,
         -7.47873709e-02, -1.24347340e-02,  3.91206928e-02,
         -6.39066994e-02, -1.09787122e-03, -1.75536101e-04,
          4.00603050e-03,  2.51781922e-02, -9.13407877e-02,
          5.26969172e-02,  7.45570695e-04,  7.69578591e-02,
          7.06912205e-02,  1.82009824e-02, -7.83590451e-02,
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        [ 6.61497489e-02,  9.51765943e-03, -6.84245583e-03,
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```

```
        2.89660189e-02,  7.90866613e-02,  2.35330053e-02,
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        1.42767876e-02, -5.22586554e-02, -7.11426511e-02,
       -6.37841821e-02, -6.26400709e-02,  3.33652124e-02,
       -2.28660386e-02,  2.67335121e-03,  3.89289409e-02,
        1.00202322e-01, -4.38633934e-03,  2.97642294e-02,
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      [ 1.34091273e-01,  2.39572674e-02,  3.97462770e-02,
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        9.49580893e-02, -8.53895769e-02, -5.38589694e-02,
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       -8.74367803e-02, -9.36056748e-02,  3.47174890e-02,
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       -1.13280803e-01, -8.95835180e-03]],

     [[ 3.05165183e-02, -4.41331752e-02, -6.97134510e-02,
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        8.72082822e-03, -7.55598918e-02, -9.37664434e-02,
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        7.52597768e-03, -7.26618245e-02,  4.62932289e-02,
        6.73741996e-02, -6.18806630e-02,  8.96886513e-02,
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        1.06501348e-01, -5.87944500e-02],
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    [[[-8.98357928e-02,  8.07068199e-02, -4.90840040e-02,
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       -1.51456306e-02,  8.71739686e-02,  6.38209879e-02,
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        2.89303064e-02,  5.18365204e-03, -1.48994736e-02,
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       -1.48416143e-02,  7.12063909e-02],
      [ 1.00984916e-01, -6.10827934e-03,  4.83230948e-02,
        3.81541103e-02,  9.21751410e-02,  1.12059778e-02,
       -6.57092929e-02, -6.62708431e-02,  5.08291572e-02,
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