

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: keras.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 (MaxPooling2D)	(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 (MaxPooling2D)	(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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      "config": {
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          32,
          32,
          3
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        "dtype": "float32",
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        "ragged": false,
        "sparse": false
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    {
      "class_name": "Conv2D",
      "config": {
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        "activity_regularizer": null,
        "batch_input_shape": [
          null,
          32,
          32,
          3
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        "bias_initializer": {
          "class_name": "Zeros",
          "config": {}
        },
        "bias_regularizer": null,
        "data_format": "channels_last",
        "dilation_rate": [
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          1
        ],
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        "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": [
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          3
        ],
        "name": "conv2d",
        "padding": "same",
        "strides": [
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          1
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        "trainable": true,
        "use_bias": true
      }
    }
  ],
}
```

```

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      "config": {
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      "config": {
        "l2": 0.10000000149011612
      }
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    "trainable": true
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        },
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        "name": "conv2d_2",
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            "config": {

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        "kernel_regularizer": {
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            "config": {
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        "dtype": "float32",
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        "strides": [
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            2
        ],
        "trainable": true
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        "seed": null,
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        "activity_regularizer": null,
        "bias_constraint": null,
        "bias_initializer": {
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            "config": {}
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```

```

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            }
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        ],
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        "strides": [
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            1
        ],
        "trainable": true,
        "use_bias": true
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{
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    "config": {
        "activation": "relu",
        "activity_regularizer": null,
        "bias_constraint": null,
        "bias_initializer": {
            "class_name": "Zeros",
            "config": {}
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        "bias_regularizer": null,
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        "groups": 1,
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        "kernel_initializer": {
            "class_name": "HeUniform",
            "config": {
                "seed": null
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        "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
    }
},

```

```

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  "config": {
    "data_format": "channels_last",
    "dtype": "float32",
    "name": "max_pooling2d_2",
    "padding": "valid",
    "pool_size": [
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      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
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},
{
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  "config": {
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    "bias_constraint": null,
    "bias_initializer": {
      "class_name": "Zeros",
      "config": {}
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    "dtype": "float32",
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      "config": {
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  }
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    "bias_constraint": null,
    "bias_initializer": {
      "class_name": "Zeros",

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        "config": {}
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    "kernel_constraint": null,
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        "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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