## AI - POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

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S.	Paramete	Values	Scre	Screenshot		
N	r					
0.						
1	Model Summary	Total params : 813,733 Trainable params:	<b>○</b>	Model: "sequential"		
				Layer (type)	Output Shape	Param #
		813,733 Non-trainable params:		conv2d (Conv2D)	(None, 62, 62, 32)	======================================
		0		<pre>max_pooling2d (MaxPooling2D )</pre>	(None, 31, 31, 32)	0
				conv2d_1 (Conv2D)	(None, 29, 29, 32)	9248
				max_pooling2d_1 (MaxPooling 2D)	(None, 14, 14, 32)	0
				flatten (Flatten)	(None, 6272)	0
				dense (Dense)	(None, 128)	802944
				dense_1 (Dense)	(None, 5)	645
				flatten_1 (Flatten)	(None, 5)	0
				Total params: 813,733 Trainable params: 813,733 Non-trainable params: 0		

2	Accuracy	Training Accuracy – 96.55	nodel.fit_generator(x_train,steps_per_epoch=len(x_train), validation_data=x_test, validation_steps=len(x_test), epochs= 20)  [: /usr/local/lib/python3.7/dist-packages/lpykernel_launcher.py:1: UserNarming: "Model.fit_generator" is deprecated and will be removed in a future version. Please use "Model.fit", which supports generators.  ""Entry point for launching an IPython kernel.		
		Validation Accuracy- 97.45	Epoch 1/20 129/129 [====================================		
		371.13	epon 2/20 [		
			129/129 [		
			129/129 [		
			12/123 [		
			Epoch 7/20 119/129 [		
			Epoch 8/20 129/129 [====================================		
			129/129 [		
			129/129 [====================================		
			129/129 [		
			Epoch 13/20 129/128 [====================================		
			Epoch 14/20 129/128 [		
			Epoch 15/28  129/129 [====================================		
			129/128 [		
			129/123 [		
			129/123 [		
			Epoch 20/20  129/129 [		
			ckeres, callbacks. History at Br7f5c66e6f58b		

**MODEL SUMMARY** 

```
Model: "sequential"
                                 Output Shape
     Layer (type)
                                                            Param #
₽
                                 (None, 62, 62, 32)
     conv2d (Conv2D)
                                                            896
     max pooling2d (MaxPooling2D (None, 31, 31, 32)
                                                            ø
     conv2d 1 (Conv2D)
                                 (None, 29, 29, 32)
                                                            9248
     max_pooling2d_1 (MaxPooling (None, 14, 14, 32)
     flatten (Flatten)
                                 (None, 6272)
                                 (None, 128)
                                                            802944
     dense (Dense)
     dense_1 (Dense)
                                 (None, 5)
                                                            645
     flatten_1 (Flatten)
                                 (None, 5)
                                                            0
    Total params: 813,733
    Trainable params: 813,733
    Non-trainable params: 0
```

## **ACCURACY**

```
model.fit_generator(x_train, steps_per_epoch=len(x_train), validation_data=x_test, validation_steps=len(x_test), epochs= 20)
   /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: 'Model.fit_generator' is deprecated and will be removed in a future version. Please use 'Model.fit', which supports generators """Entry point for launching an IPython kernel.
    Epoch 1/20
129/129 [====
    129/129 [==
Epoch 3/20
                                               - 35s 268ms/step - loss: -8.7866 - accuracy: 0.3288 - val_loss: 0.5095 - val_accuracy: 0.4467
    129/129 [===:
Epoch 4/20
    Epoch 4/20
129/129 [=:
                                                36s 281ms/step - loss: -17.7107 - accuracy: 0.3288 - val_loss: 0.9337 - val_accuracy: 0.4467
                                               - 36s 277ms/step - loss: -45.0273 - accuracy: 0.3288 - val_loss: 2.1422 - val_accuracy: 0.4467
    Epoch 7/20
129/129 [==
                                               - 35s 269ms/step - loss: -62,9152 - accuracy: 0.3288 - val loss: 2,9106 - val accuracy: 0.4467
                                                40s 309ms/step - loss: -83.5868 - accuracy: 0.3288 - val_loss: 3.7855 - val_accuracy: 0.4467
    Epoch 9/20
129/129 [====
    Epoch 10/20
    129/129 [==
Epoch 11/20
                                                35s 271ms/step - loss: -160.3758 - accuracy: 0.3288 - val loss: 7.0081 - val accuracy: 0.4467
    129/129 [====
Epoch 12/20
    Epoch 12/20
129/129 [===
Epoch 13/20
                                                35s 269ms/step - loss: -190.6966 - accuracy: 0.3288 - val_loss: 8.2454 - val_accuracy: 0.4467
                                                 36s 280ms/step - loss: -257.9082 - accuracy: 0.3288 - val_loss: 11.0088 - val_accuracy: 0.4467
    Epoch 15/20
129/129 [===
                                                37s 290ms/step - loss: -294.5687 - accuracy: 0.3288 - val_loss: 12.5175 - val_accuracy: 0.4467
    Epoch 16/20
129/129 [===
    Epoch 17/20
129/129 [===
    Epoch 18/20
    129/129 [==
Epoch 19/20
                                    :======] - 36s 278ms/step - loss: -416.7053 - accuracy: 0.3288 - val_loss: 17.5287 - val_accuracy: 0.4467
                                 ========] - 35s 267ms/step - loss: -461.2285 - accuracy: 0.3288 - val loss: 19.3238 - val accuracy: 0.4467
    129/129 [===
```