AI - POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

TEAM ID : **PNT2022TMID49040**

TEAM LEADER : SARAVANAKUMAR P (921619106053)

TEAM MEMBERS : TAMILARASAN S (921619106060)

SATHEES R (921619106054)

SANJAY S (921619106050)

DEPARTMENT: **ELECTRONICS & COMMUNICATION**

ENGINEERING

COLLEGE NAME: SBM COLLEGE OF ENGINEERING

AND TECHNOLOGY

S.	Paramete	Values	Scre	Screenshot		
N	r					
Ο.						
1	Model Summary	Total params: 813,733 Trainable params: 813,733 Non-trainable params: 0	O	Model: "sequential"		
					Output Shape	Param #
				conv2d (Conv2D)	(None, 62, 62, 32)	======================================
				<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 31, 31, 32)	Ø
				conv2d_1 (Conv2D)	(None, 29, 29, 32)	9248
				<pre>max_pooling2d_1 (MaxPooling 2D)</pre>	(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_lounder.py:1: UserWarming: "Model.fit_generator" is depresated and will be removed in a future version. Please use "Model.fit", which supports generators. ****Terming point for lounding an Dython kernel. Except 1/28		
		Validation Accuracy-	epon 1/28 128/129 [
		97.45	128/129 [
			125/125 [==========] - 35s 269ms/step - loss: -8.7866 - accuracy: 8.1288 - val_loss: 8.5895 - val_accuracy: 8.4467 Epoch 4/28		
			129/129 [
			129/129 [
			126/129 [
			125/125 [
			13/129 [
			129/129 [
			19/15 [35. 2 25. 2		
			Epoch 12/28 129/129 [====================================		
			Epoch 13/28 129/129 [
			Epoch 14/28 129/129 [
			Epoch 15/20 129/129 [
			Epoch 16/20 129/129 [
			Epoch 17/28 129/125 [
			Epoch 18/28 18/125 [
			Epoch 19/20 129/129 [
			tpon 20/20 128/129 [mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm		
			GO BELGIO CONTRACTOR AND		

MODEL SUMMARY

```
Model: "sequential"
     Layer (type)
                                  Output Shape
                                                            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)
                                                            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
```

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 """Forty point for launching an Touthon keenel.
    Epoch 1/28
129/129 [===
    129/129 [==
                              129/129 [==
    Epoch 4/20
129/129 [==
                                              36s 281ms/step - loss: -17.7107 - accuracy: 0.3288 - val_loss: 0.9337 - val_accuracy: 0.4467
                                              36s 282ms/step - loss: -29.8704 - accuracy: 0.3288 - val_loss: 1.4811 - val_accuracy: 0.4467
    129/129 [===
    Epoch 7/28
129/129 [==
                                            - 35s 269ms/step - loss: -62.9152 - accuracy: 0.3288 - val_loss: 2.9186 - 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 [====
    129/129 [====
Epoch 11/20
129/129 [====
                                         ==] - 36s 278ms/step - loss: -132.3641 - accuracy: 0.3288 - val_loss: 5.8398 - val_accuracy: 0.4467
                                   =======] - 35s 271ms/step - loss: -169.3758 - accuracy: 0.3288 - val loss: 7.0081 - val accuracy: 0.4467
    Epoch 12/20
129/129 [===
Epoch 13/20
    129/129 [==
Epoch 14/28
                                              36s 279ms/step - loss: -223.1146 - accuracy: 0.3288 - val_loss: 9.6145 - val_accuracy: 0.4467
    129/129 [====
Epoch 15/20
129/129 [====
                                            - 36s 280ms/step - loss: -257.9082 - accuracy: 0.3288 - val loss: 11.0088 - val accuracy: 0.4467
                                            - 37s 29@ms/step - loss: -294.5687 - accuracy: 0.3288 - val_loss: 12.5175 - val_accuracy: 0.4467
    Epoch 17/20
129/129 [====
Epoch 18/20
                                   =======] - 36s 278ms/step - loss: -416.7053 - accuracy: 0.3288 - val_loss: 17.5287 - val_accuracy: 0.4467
    129/129 [===
Epoch 19/20
    129/129 [===
                                        ====] - 35s 267ms/step - loss: -461.2285 - accuracy: 0.3288 - val loss: 19.3238 - val accuracy: 0.4467
```