Assignment 2.1 FAHAD SAEED (DD16)

1) Conv2D layer 1 → 1792

((3x3) x 64 x 3) + 64

(3x3): Kernel; 64: filters; 3: channel; 64: back propagation

2) Conv2D layer 2 → 18464

((3x3) x 32 x 64) + 32

(3x3): Kernel; 32: filters; 64: previous layer filters; 32: back propagation

3) Dense layer 1 → 1049088

(512 x 2048) + 512

512: neurons; 2048: flatten() o/p; 512: back propagation

4) Dense layer 2 → 131328

(256 x 512) + 256

256: neurons; 512: o/p from prev layer; 256: back propagation

5) Dense layer 3 → 32896

(128 x 256) + 128

128: neurons; 256: o/p from prev layer; 128: back propagation

6) Dense layer 4 → 8256

(64 x 128) + 64

64: neurons; 128: o/p from previous layer; 64: back propagation

7) Dense layer 5 → 2080

(32 × 64) + 32

↓ neurons ↓ o/p from prev layer ↓ back propagation

8) Dense layer 6 (o/p layer) → 330

(10×32) +10 → back propagation.

↓ no. of o/p neurons ↓ o/p from prev layer

Total trainable parameters = 1, 244, 234.