

DL - Assignment 2

① Conv2D Layer 1 \rightarrow 1792

$$(3 \times 3 \times 64 \times 3) + 64$$

\downarrow \downarrow \downarrow \downarrow
 Kernel Filters channel back propagation

② Conv2D Layer 2 \rightarrow 18464

$$(3 \times 3 \times 32 \times 64) + 32$$

\downarrow \downarrow \downarrow \downarrow
 kernel Filters previous layer Filters back prop.

③ Dense Layer 1 \rightarrow 1049088

$$(512 \times 2048) + 512$$

\downarrow \downarrow \downarrow
 neurons Flatten() o/p back prop

④ Dense Layer 2 \rightarrow 131328

$$(256 \times 512) + 256$$

\downarrow \downarrow \downarrow
 neurons o/p from prev layer backprop

⑤ Dense Layer 3 \rightarrow 32896

$$(128 \times 256) + 128$$

\downarrow \downarrow \downarrow
 neurons o/p from prev layer backprop

⑥ Dense layer 4 \rightarrow 8256

$(64 \times 128) + 64$
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 neurons % from back
 previous layers prop

⑦ Dense Layer 5 \rightarrow 2080

$$(32 \times 64) + 32$$

↓ ↓ ↓

neurons % from back prop

 prev layer

⑧ Dense layer 6 (o/p layer) \rightarrow 330

$$(10 \times 32) + 10$$

↓ ↓ ↓

no of o/p o/p from backprop

neurons prev layer

Total trainable parameters = 1,244,234