

Composition of VGG16 and ResNet50 Architectures

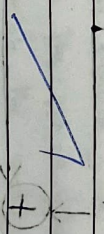
Observational table:

Model	Total layers	Trainable Parameters	Feature type
VGG16	16	144	Feature 1 Cheap features
ResNet50	25	25.6M	Deep supervised feature

Observations: VGG16 is a simple

- Early layers detect low-level features like edges and corners.
- Deeper layers learn complex patterns and object parts.
- Transfer learning allows reusing learned weights from one task.

Result:



The pre-trained model layered structure and feature interaction process were successfully analyzed, revealing insight into transfer learning and deep feature hierarchy.

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