

Transfer Learning

Objective :- To learn data science

Case 1

Student 1: 10 year old student

Case 2

Student 2: viewer of this video

Q. Who will take more time to understand?

⇒ Obviously Case 1 will take more time compared to Case 2

Reason: In Case 1 you have to learn everything from scratch. But in Case 2 you have some basic knowledge to understand deep learning.

MNIST

Model 1 :- Recognise handwritten digits.

Prob. Statement: Create a model which can tell a digit is odd or even?

⇒ So just tweak model 1 to understand the new use case

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This is transfer learning.

You are training the existing model to learn something new.

⇒ We solve one of the biggest problem in deep learning i.e. the requirement of large amount of data.

⇒ Less time required to train a model