



WHAT IS DEEP FAKE



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This is one such
example of deepfake



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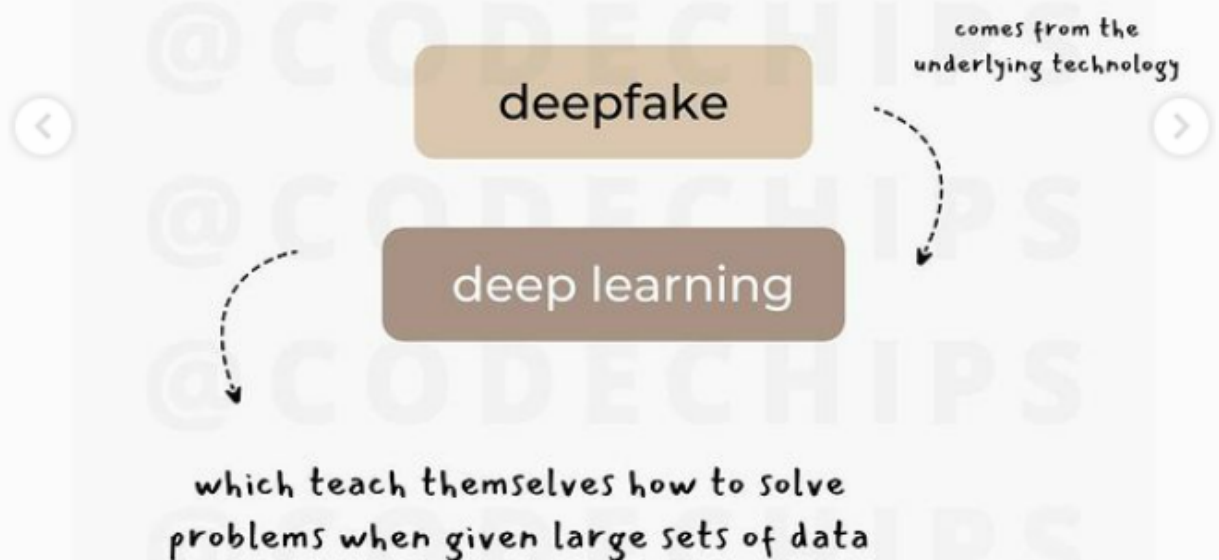
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Deep Fake

Deepfakes use deep learning **artificial intelligence** to replace the **likeness** of one person with another in video and other digital media





How deep fake video works

The most common method uses deep neural networks involving **autoencoders** that employ a face-swapping technique



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First thing is to train the model

To do that 1st we need data (large amount)

We will need a
Source and Target

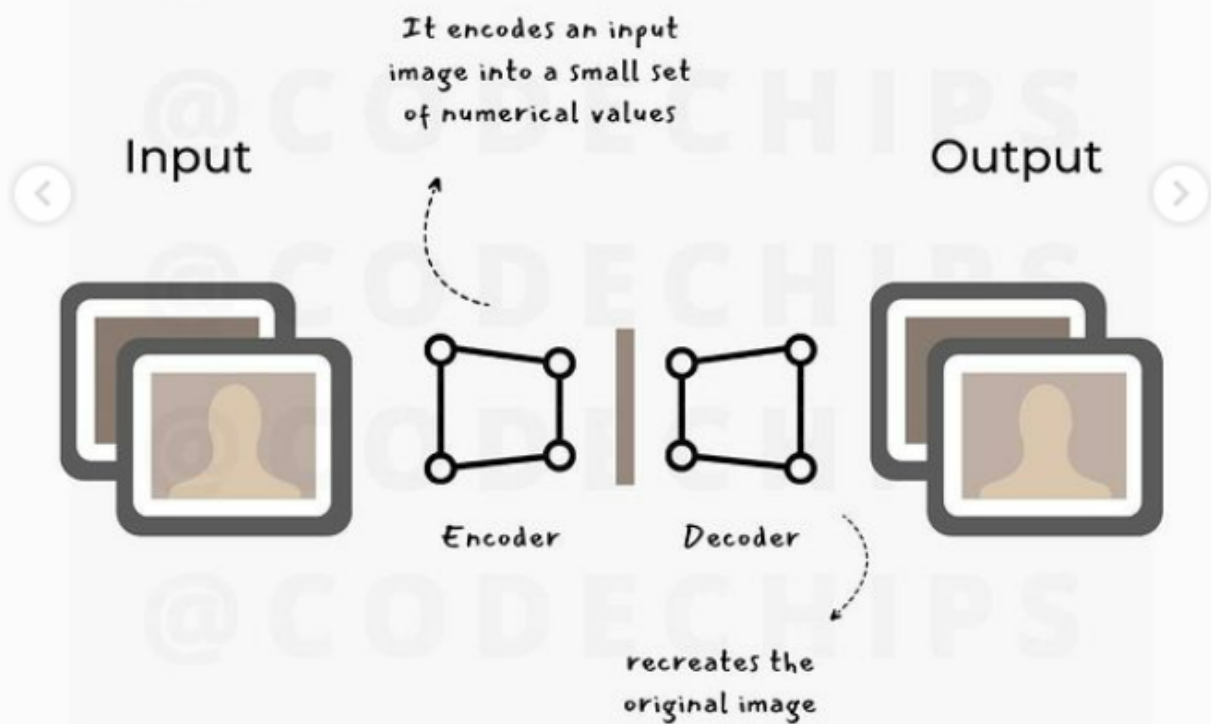


With enough training, the neural networks will
be able to create numerical representations of
the features of each face.



Autoencoders

An autoencoder is a special type of deep learning algorithm that performs two tasks



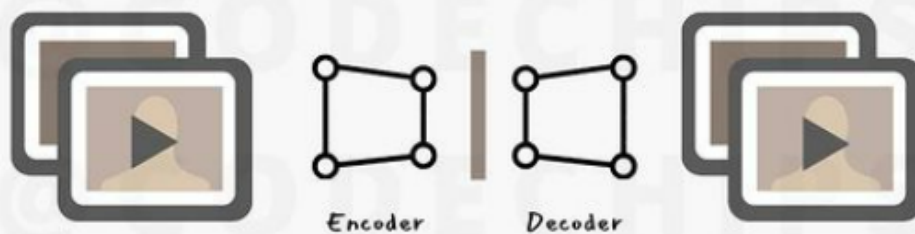


Deepfake autoencoders

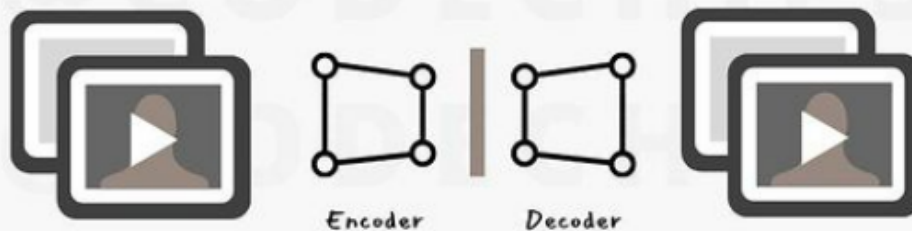
Here one is trained on the face of the actor
and another trained on the target

Input

Output



After the autoencoders
are trained, you switch
their outputs





In a nutshell, the autoencoder grabs the facial expression of one person and maps it onto the face of another person



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