

How do GANs work? – step 3

The diagram illustrates the third step in the GAN workflow. On the left, a waveform plot is shown, which is fed into two neural network structures. The first structure, labeled 'Step: 3' in pink, is a generative model represented by a blue-bordered box containing nodes colored yellow, green, and red, connected by blue arrows. The second structure is a discriminative model, also represented by a blue-bordered box with similar colored nodes and connections. A large blue arrow points from the waveform input to the generative model.

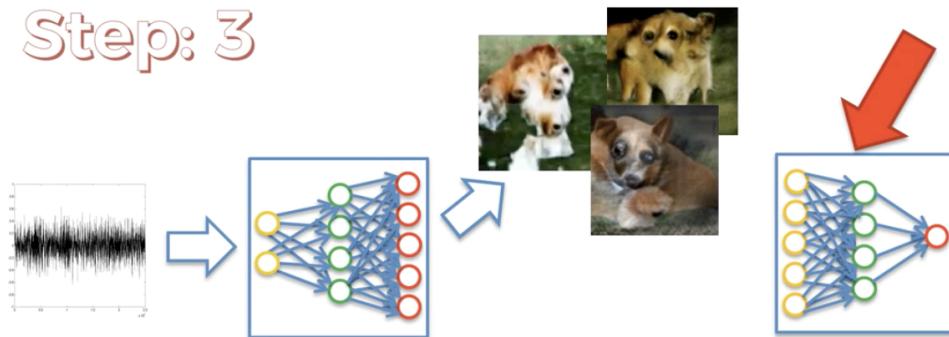
A screenshot of a web browser window. The title bar says 'Computer Vision A-Z'. The main content area displays the text 'How Do GANs Work?' above the diagram. The top right corner shows the SuperDataScience logo and navigation links like 'Browse Q&A' and 'Add Bookmark'. Below the main content area is a black horizontal bar.

This diagram continues the GAN workflow. It shows the generated images produced in the previous step. Three images of dogs are displayed: a white dog looking up, a brown dog standing, and a brown dog lying down. These images are shown in a feedback loop, indicated by a blue arrow pointing from the generated images back to the generative network (the blue-bordered box with yellow, green, and red nodes). The generative network is shown again on the left, receiving the generated images as input.

A screenshot of a web browser window, identical to the one above it, displaying the title 'How Do GANs Work?' and the navigation bar for 'Computer Vision A-Z' and 'SuperDataScience'.

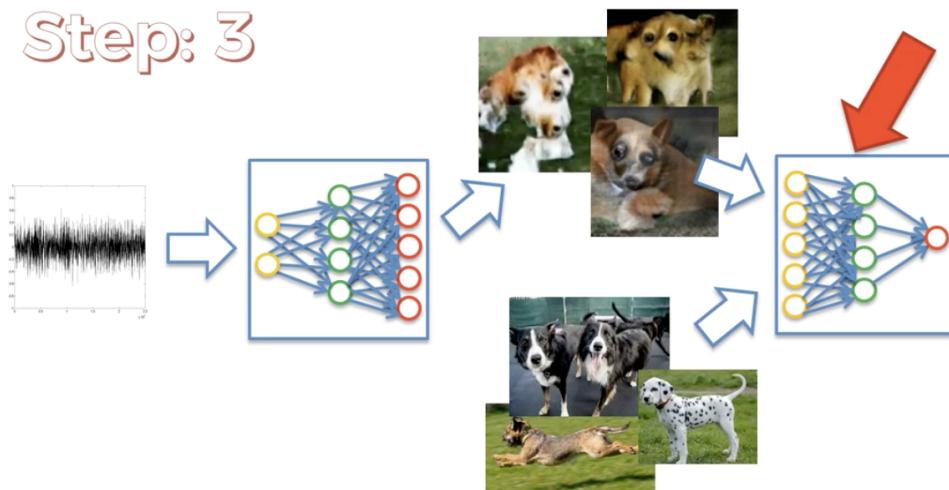
How Do GANs Work?

Step: 3



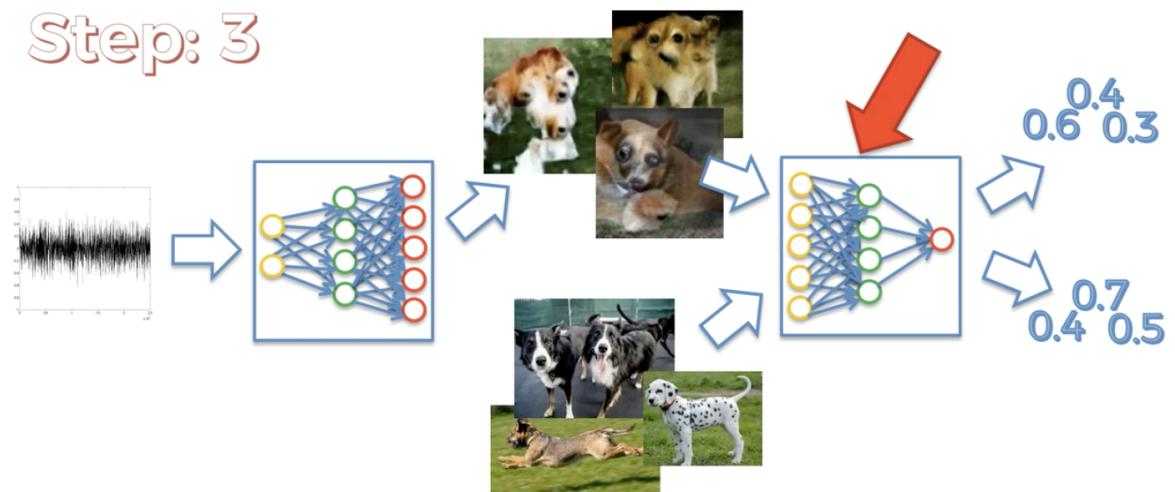
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Step: 3



How Do GANs Work?

Step: 3

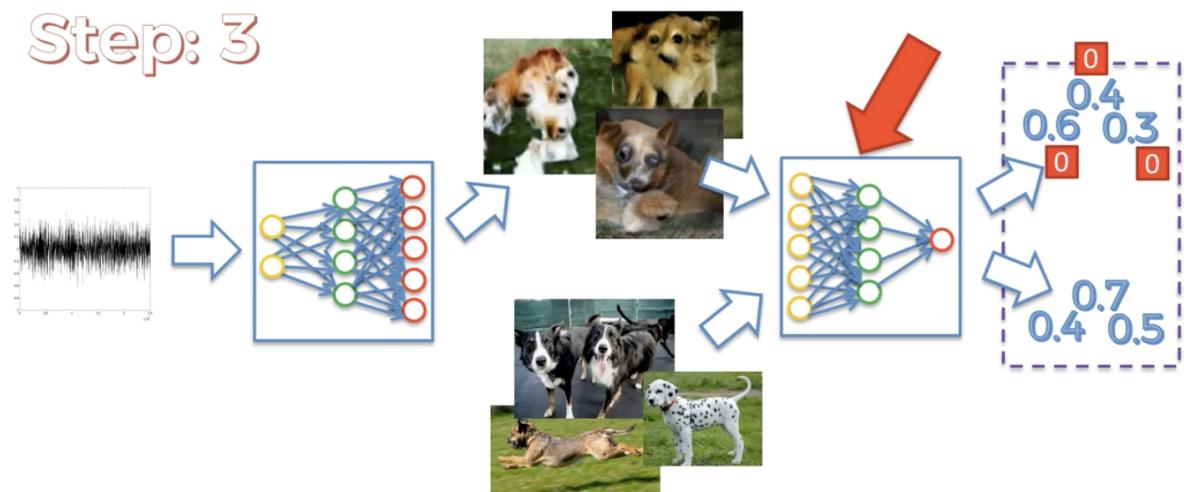


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Step: 3

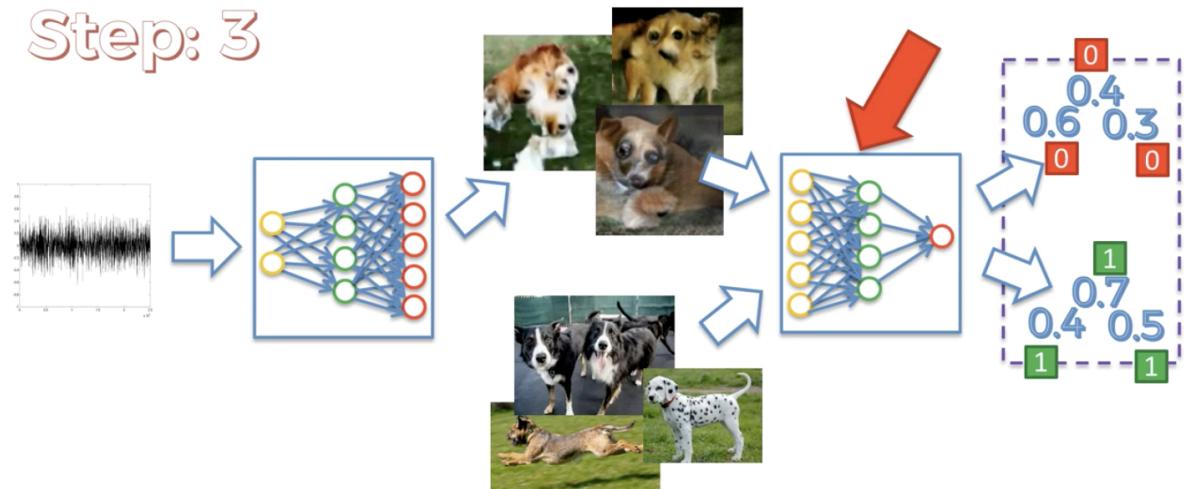


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Step: 3

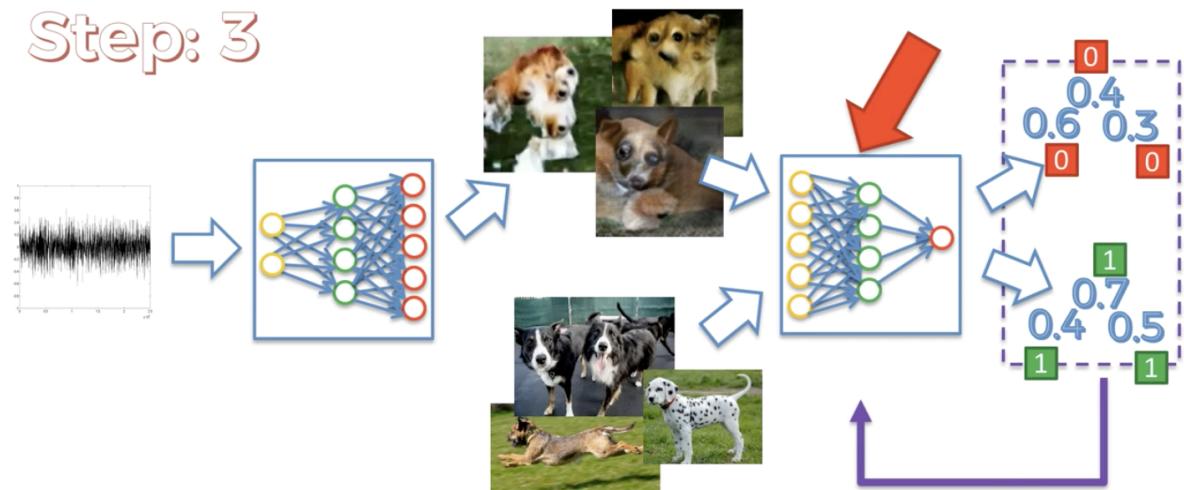


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Step: 3

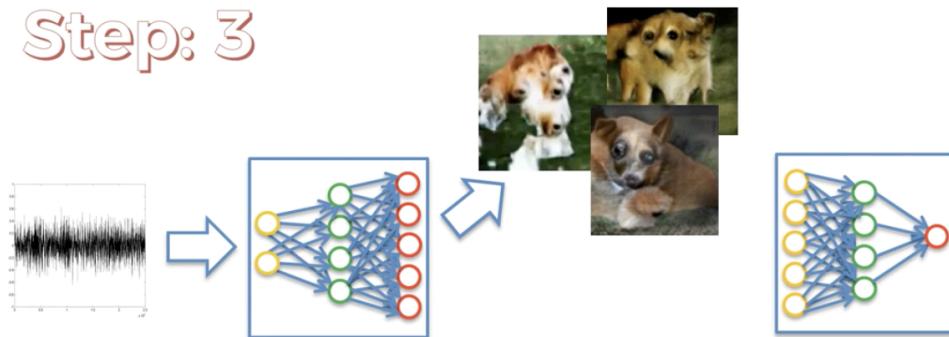


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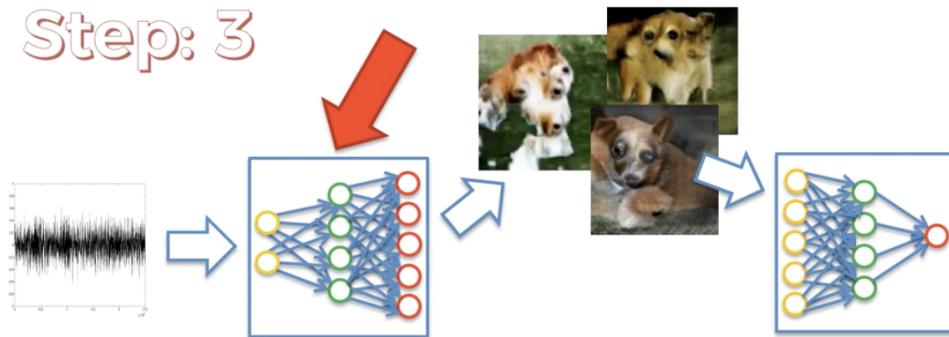
How Do GANs Work?

Step: 3



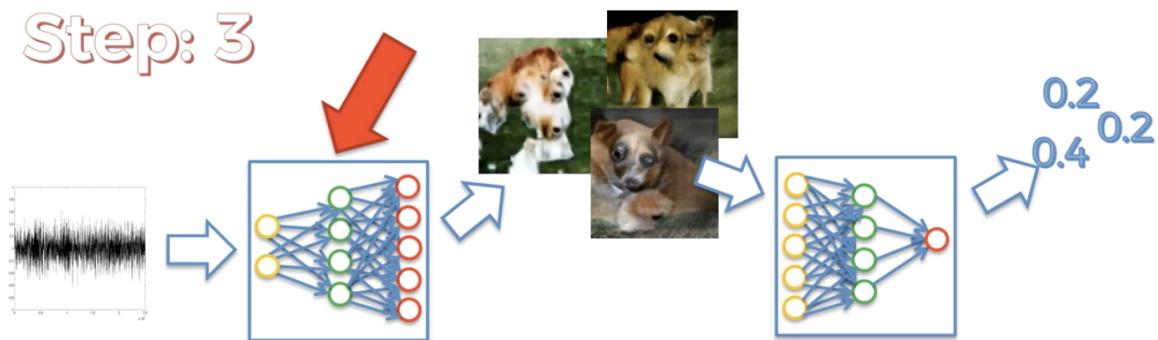
How Do GANs Work?

Step: 3



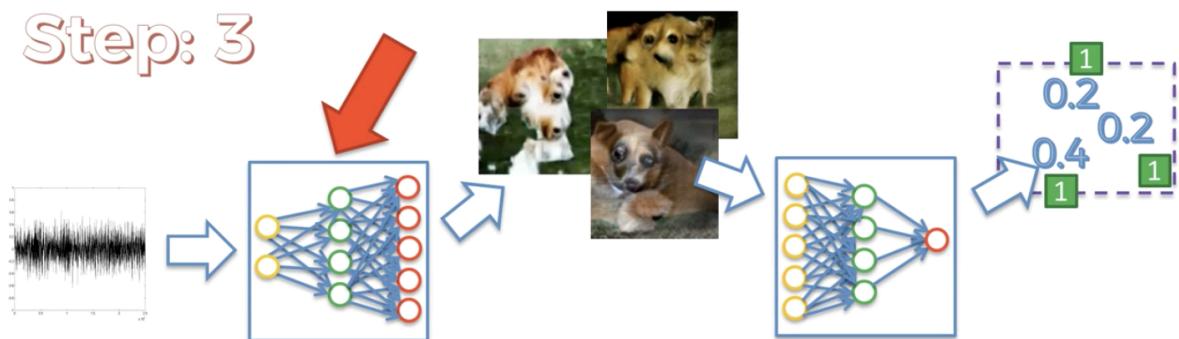
How Do GANs Work?

Step: 3



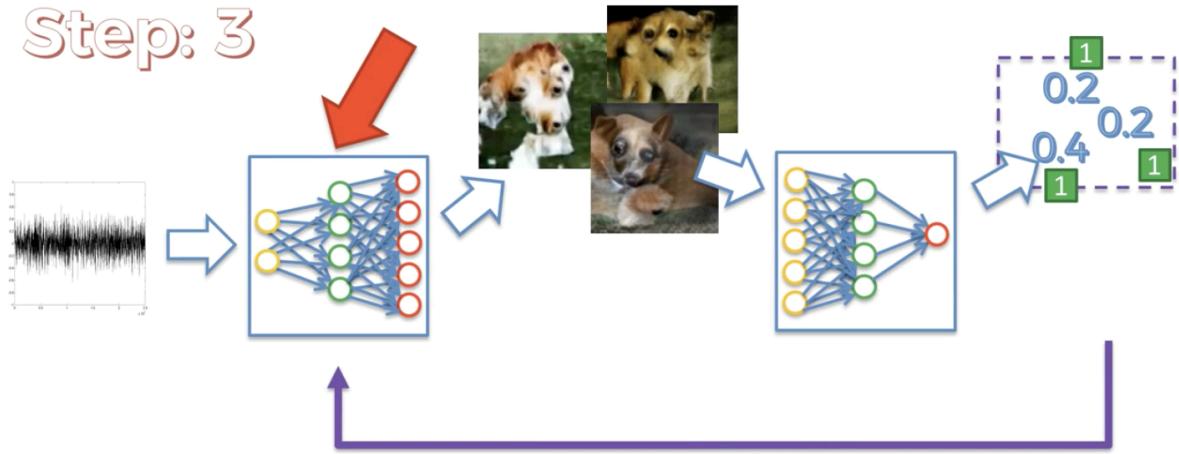
How Do GANs Work?

Step: 3



How Do GANs Work?

Step: 3



So far we have don't this for 3 step but in really there Is tens of thousands step.

Additional Reading

Additional Reading:

Generative Adversarial Nets

Ian Goodfellow et al. (2014)

Link:



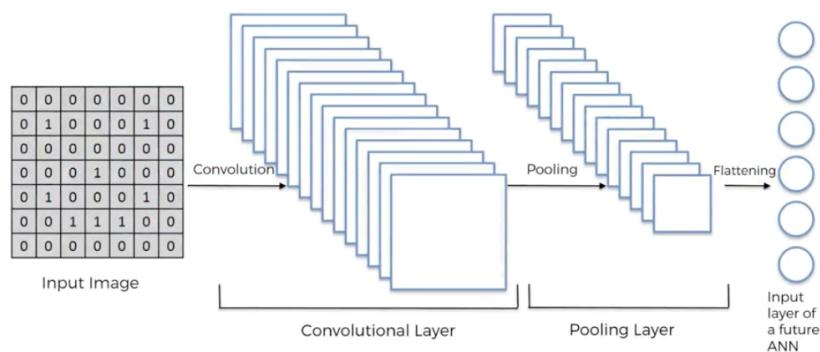
<https://arxiv.org/pdf/1406.2661.pdf>

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In here we did deconvolutional network

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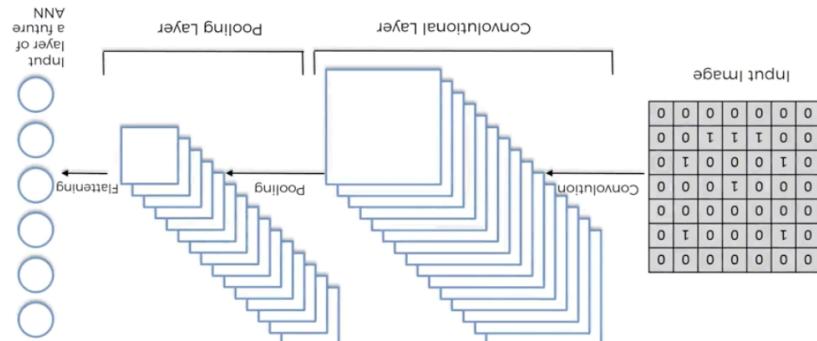


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Convolutional network

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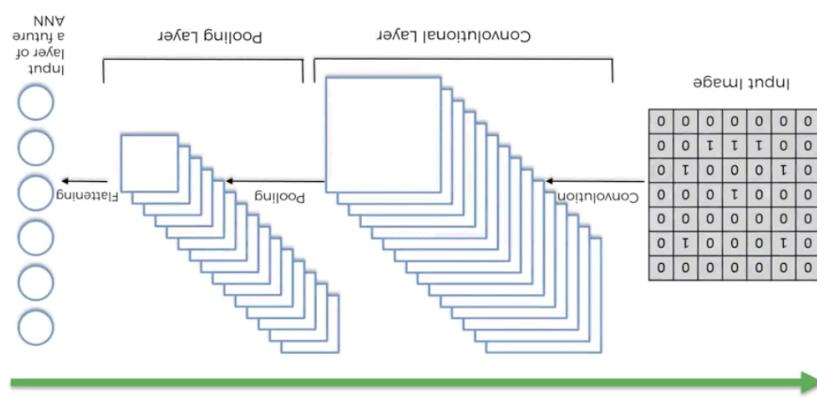


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If we rotate the convolutional network do the process from left to right then it's called deconvolutional network.

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Additional Reading

Additional Reading:

Adaptive Deconvolutional Networks for Mid and High Level Feature Learning

Matthew D. Zeiler et al. (2011)

Link:

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.227.7393&rep=rep1&type=pdf>

