

# Lecture 21 - How Neural Nets Work

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Overview of Lecture 21 - <https://youtu.be/IB6NjW5chyY>

From Amazon S3 - for download (same as youtube videos)

Overview of Lecture 21

First how TensorFlow and neural networks work. How do they learn.

Rather than me doing a lecture on this 3blue1brown has a set of four 20 minute talks on this that are really good. Excellent animations - a truly fantastic discussion.

<https://youtu.be/aircAruvnKk>

<https://youtu.be/IHZwWFHWa-w>

<https://youtu.be/llg3gGewQ5U>

<https://youtu.be/tleHLnjs5U8>

## What is GPT-3

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Also there is a new technology based on this called GPT-3. First read something that GPT-3 wrote:

<https://www.theguardian.com/commentisfree/2020/sep/08/robot-wrote-this-article-gpt-3>

And watch a video on what the capabilities of GPT-3 are.

[https://www.youtube.com/watch?v=G6Z\\_S6hs29s](https://www.youtube.com/watch?v=G6Z_S6hs29s)