

Ai with Keras

<https://github.com/worldofsaad/Deep-Learning-KERAS>

Artificial Neural Networks

Gradient descent = how to create a function out of set of data

https://www.youtube.com/watch?v=z3BHL67K0JM&feature=emb_title

backpropagation = method to optimise weight and biases using gradient descent

<https://www.youtube.com/watch?v=KgGYfniTFTs>

Vanishing gradient = why sigmoid function is not used

<https://www.youtube.com/watch?v=TFFkEE4ApUw>

Activation functions = Other Activation function that more efficient

[https://www.youtube.com/watch?](https://www.youtube.com/watch?time_continue=12&v=NyDsezhVuwE&feature=emb_title)

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Keras and Deep Learning Libraries

Deep learning libraries = Keras vs Tenserflow vs Pytorch

<https://www.youtube.com/watch?v=mAQEKcsGluM>

Regression Models with Keras

[https://www.youtube.com/watch?](https://www.youtube.com/watch?time_continue=0&v=yl25G_XjH9o&feature=emb_title)

[time_continue=0&v=yl25G_XjH9o&feature=emb_title](https://www.youtube.com/watch?time_continue=0&v=yl25G_XjH9o&feature=emb_title)

[Links to Keras Documentation](#)

Classification Models with Keras

https://www.youtube.com/watch?v=jT8jdZCYiCc&feature=emb_title

Deep Learning Models

Shallow vs Deep Neural network

<https://www.youtube.com/watch?v=ylbawWkl9V8>

Convolutional Neural Networks

<https://www.youtube.com/watch?v=cPpKL4l6SEg>

Recurrent Neural Networks

<https://www.youtube.com/watch?v=rkAn4XDvdLI>

Autoencoders

<https://www.youtube.com/watch?v=YFijT8mkfwk>