

DEEP LEARNING WITH KERAS

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What have we learned?

- What is Deep Learning?
- How can I train a Neural Network?
- Which topology is best for what problem?
- Problems outlined:
 - Image classification
 - Text classification
 - Text generation
 - Image style transfer
 - Game learning

Any more applications?

- Caption Generation
- Visual Question Answering
- ...



A person skiing down a snow covered slope

See demo at

<https://cs.stanford.edu/people/karpathy/deepimagesent/generationdemo/>



What is he doing?

playing tennis	98.987%
tennis	0.629%
skateboarding	0.191%
serving	0.091%
jumping	0.032%

See demo at

<https://vqa.cloudcv.org/>

Even more applications?

- Restore colors in B&W photos and videos
- Automatic translation
- Self-driving cars
- More advanced game playing
- Predict earthquakes?
- Create deep learning programs!?
- ...

Check:

- <https://www.youtube.com/watch?v=V1eYniJ0Rnk>
- <http://www.yaronhadad.com/deep-learning-most-amazing-applications/>
- <https://medium.com/@vratulmittal/top-15-deep-learning-applications-that-will-rule-the-world-in-2018-and-beyond-7c6130c43b01>

So, what next?

Now you know!

Use your power for good!