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
- https://experiments.withgoogle.com/collection/ai
- 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!