### Demo links:

1. [Tensorflow Playground](https://playground.tensorflow.org/#activation=tanh&batchSize=10&dataset=circle&regDataset=reg-plane&learningRate=0.03&regularizationRate=0&noise=0&networkShape=4,2&seed=0.48647&showTestData=false&discretize=false&percTrainData=50&x=true&y=true&xTimesY=false&xSquared=false&ySquared=false&cosX=false&sinX=false&cosY=false&sinY=false&collectStats=false&problem=classification&initZero=false&hideText=false) - have specific agenda for what you want them to learn from this!
2. <https://tensorflow-mnist.herokuapp.com> - live browser demo for hand writing classification
3. <https://cs.stanford.edu/~karpathy/convnetjs/demo/mnist.html>
4. <https://cs.stanford.edu/people/karpathy/convnetjs/demo/classify2d.html> - Imp for transformations [ Difficult]
5. <http://yosinski.com/deepvis#toolbox>

### PPT Reference:

1. <http://cs231n.stanford.edu/>
2. <http://colah.github.io/>
3. <https://github.com/janishar/mit-deep-learning-book-pdf>

Points to remember:

**Flow**: [spend more time on examples than theory in ppt, maybe give analogy and teach]

1. Tell about all the terms - AI, ML, DL, RL…….
2. Correlate how humans learn and how machines can learn, eg: teaching a kid to learn colors, persons name etc
3. Egs of interesting systems using ML, DL currently. ( spam, cars, google io, )
4. Start with how linear eqs solve model problems, ml formulation, DL formulation .
5. Motivate with transformations, tell about convolutions and how they can help.[ Add some interesting cases here.] ---- Notebook 1 (conv)
6. CNN formulation for images, what all it captures[video/image egs] ----- Notebook 2 (cnn with mnist)
7. Describe the power and breadth of applications AI [ RL, RNN, ML, DL] are useful.
8. https://www.slideshare.net/LuMa921/deep-learning-a-visual-introduction/7

### To Add:

1. General AI flow
2. Use cases/ egs in beginning.
3. Add demos from references in appropriate places.
4. How a novice can understand convolution and appreciate it.

### Presentation TIPS:

* Can ask Questions anytime
* Ask about the familiarity with the field before starting and cater to it!