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QUESTION 1 (1/1 point)

For supervised learning, which of the following deep nets would you choose?

- [ ] Autoencoder
- [x] Deep Belief Nets
- [x] Convolutional Nets
- [ ] Restricted Boltzmann Machines
- [x] Recurrent Nets

✔

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QUESTION 2 (1/1 point)

Which of the following is true with respect to the training process of a deep net?

- ○ The Cost is the difference between the net's predicted and actu
- ○ The training process utilizes gradients which measure the rate at which the weights and biases change with respect to the cost.
- ○ The objective of the training process is to make the cost as low as possible.
- ○ The training process utilizes a technique called back-propagation.
- ◉ All of above. ✔

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QUESTION 3 (1/1 point)

True or False: With backprop, the early layers train slower than the later ones, making the early layers incapable of accurately identifying the pattern building blocks needed to decipher the full pattern.

- ◉ True ✔
- ○ False

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QUESTION 4 (1 point possible)

For image recognition, which of the following deep nets would you choose? Select all that apply.

- [ ] Autoencoder
- [x] Deep Belief Nets
- [x] Convolutional Nets
- [ ] Restricted Boltzmann Machines
- [x] Recurrent Nets

✖

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QUESTION 6 (1/1 point)

True or False: To train, a DBN combines two Learning methods - supervised and unsupervised.

- (•) True ✔
- ( ) False

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QUESTION 7 (1/1 point)

Which of the following is the most popular use of a Convolutional Net?

- ( ) Image Recognition
- (•) Object Recognition in an Image ✔
- ( ) Time Series Forecasting
- ( ) Supervised Fine Tuning

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QUESTION 8 (1/1 point)

Which of the following are True about a RBM? Select all that apply.

- [x] The RBM is part of the first attempt at beating the vanishing gradient and uses unlabelled data.
- [ ] It improves its own accuracy through self-correction.
- [x] Its purpose is to re-create inputs and in doing so has to make decisions about which input features are more important.
- [x] It stores the relative importance of the features as weights and biases.
- [ ] It predicts which group a given set of inputs falls into.

✔

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QUESTION 9 (1 point possible)

Which of the following statements are true about the architecture of a CNN? Select all that apply.

- [ ] A CNN can only have two types of layers: CONV and RELU.
- [x] A RELU layer has to always be followed by a POOL layer.
- [x] FC layers are usually found at the end.
- [ ] A CONV layer has a theoretical maximum number of filters.
- [x] A typical CNN implementation has multiple repetitions of CONV, RELU and POOL layers, with sub-repetitions.

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QUESTION 10 (1 point possible)

- (•) True ✖
- ( ) False

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QUESTION 11 (1 point possible)

Which of the following are differences between a Recurrent Net and a Feedforward Net? Select all that apply.

- [x] Recurrent Nets feed the output of any time step back in as input for the next step.
- [x] Recurrent Nets are used for time series forecasting.
- [x] Recurrent Nets can output a sequence of values.
- [ ] Recurrent Nets are trained using back-propagation.
- [x] The nodes in a recurrent nets have a classifier that activate and produce a score.

✖

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QUESTION 12 (1/1 point)

Which of the following statements are true about training a Recurrent Net? Select all that apply.

- [x] Since RNNs use backprop, the vanishing gradient is a problem.
- [ ] The number of time steps used for training has no bearing on the severity of the vanishing gradient problem.
- [x] The vanishing gradient can potentially lead to decay of information through time.
- [x] The most popular technique to address the vanishing gradient is the use of gates.
- [ ] The only technique to address the vanishing gradient is the use of gates.

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QUESTION 13 (1 point possible)

True or False: Deep Autoencoders are used for dimensionality reduction.

- (•) True
- ( ) False

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QUESTION 14 (1/1 point)

Which of the following are true about Autoencoders? Select all that apply.

- [ ] It improves its own accuracy through self-correction.
- [x] Its purpose is to re-create inputs and in doing so has to make decisions about which input features are more important.
- [x] A Restricted Boltzmann Machine is a type of Autoencoders.
- [x] It stores the relative importance of the features as weights and biases.
- [ ] It predicts which group a given set of inputs falls into.

✔

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QUESTION 15 (1/1 point)

True or False: Given they are mainly about machine vision, Convolutional Nets don't really find a home in the field of medicine.

- ( ) True
- (•) False ✔

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