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- Loss functions (function of this error which the model is making during the training phase)

is the actual loss/cost function used to minimize the error made by the model during training process

- Optimizers (in ML solvers) >>> Actual algo which is used to find the minima in the loss function

Most ML Algo use hard-coded Loss functions and optimizers/solver

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- What is Deep Leaning: all learning happen using neural networks

- Why/When is DL superior to ML?

- Diff neural networks >> are diff configurations/architectures of neurons, specialized for a given task.

- Activation functions

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- What is Deep Learning, when to use DL vs ML?

- What is Forward Pass?

- What is Backpropagation? What is it used for ?

- How to decide the number of nodes in the input layer?

- How to decide the number of neurons in the output layer?

- What are activation functions? and where/why are they used?

- How to decide which activation function to be used for what kind of layers

- for hidden layers (best: relu)

- for o/p layers >>> regression > relu, otherwise linear

- for o/p layers >>> binary classification >> sigmoid (1 neuron o/p layer) or softmax (2 neurons o/p layer)

- for o/p layers >>> multiclass classification >> softmax

- what is epoch in model training?

- what batch size in training? how does it affect the training process?

- How to count the total number of parameters defining a NN?

- What are Parameters vs Hyperparameters of a Model (ML/DL)?

- What are Hidden layers?

- Why do we need HL?

- How do you decide how many HL to be used in a NN?

- How do you decide how many neurons to be used in a HL?

- What is Gradient Descent Algo? Where does it fit in NN discussion?

- What are diff variants of GD? Why do we need diff variants?

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https://www.amazon.com/Hands-Machine-Learning-Scikit-Learn-TensorFlow/dp/1491962291

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