

1. The measure of difference between the estimated value from its true value is called error
2. A Machine learning procedure with error detection and error correction mechanism is termed as supervised machine learning
3. The average sum of absolute difference between the actual and predicted values is called mean absolute error
4. sigmoid function is used in Logistic Regression networks.
5. supervised learning algorithm uses Perceptron Learning procedure
6. unsupervised Training or Learning process group's the unstructured / Unlabeled data based on distinct features available within the data set
7. Logistic regression is a probabilistic model that classifies the instances in terms of probabilities
8. Shallow networks takes inputs has vectors
9. Activation function is used to calculate the Non-linearity of an artificial neural network
10. Deep Learning is a subset of Machine learning
11. Probability is the science of quantifying uncertain things
12. delta learning law Learning law has faster convergence rate when compare with perceptron Networks
13. The major draw back of BPN network is local\_minima
14. L1 regularization attempts to estimate the median of the Data
15. l2 regularization is not recommended for feature selection
16. batch normalization is a method of adaptive reparameterization
17. Deep Learning networks can have inputs in the form of texts as well as images

18. VC dimensions is used to measure the **probabilities** of the model/algorithm
19. GAN uses **unsupervised** learning
20. \_\_\_\_\_ is used to reduce the dimensionality of each feature map obtained by convolution process
21. Inception Net is also known as **GoogleNet**
22. **principle component analysis** is a method which uses simple matrix operations and statistics to calculate a projection of the original data into the same number or fewer dimensions
23. In LDA the decision boundary is **linear**
24. The **auto encoder** learns a representation (encoding) for a set of data, by training the network to ignore insignificant data ("noise").
25. Alex net has **3** number of fully connected(FC) layers
26. **alexnet** architecture contains two(2) Dropout layers
27. In total there are **62.3** Million parameters present in VGG Net
28. **resnet** uses SKIP Connections concept
29. **hyper** parameters are set by the engineer before training
30. In Alex net the Fully connected layers use **relu** activation function
31. In biological neural system, **neurons** acts as the collecting point for signals coming from different organs
32. **axon** is responsible for signal transmission at the synaptic gap present between two biological neural cells
33. A combination of Deep Learning and Reinforcement Learning is known as **deep reinforcement learning**
34. In Reinforcement learning , **Reward()** is the feedback by which we measure the success of an agent's actions in a given state

35. Spatial Transformer Network is composed of Localisation net, Grid Generator and sampler
36. A spatial Transformer network can Transform, Crops out and scale normalizes the region of interest given input image
37. In a LSTM model sigmoid function gate determines for what extent to forget the previous data
38. sigmoid gate determines the extent of information be written onto the Internal Cell State of a LSTM Model
39. The optimization algorithm which minimizes the convex function is called convex optimization
40. A non convex optimization problem is where the objective function is of non convex type
41. imagenet is a Image database which has millions of Images organised as per Wordnet Hierarchy
42. When all the information required to generate the data is stored in the parameter of the model , then the model is called Model Parameter
43. wavenet is a Deep neural network used for generating raw audio signals
44. Wavenet is a generative model which is trained on Speech samples
45. natural language processing is based on interactions between computer and Human Languages
46. speech segmentation segmentation is the subtask of Speech Recognition
47. lemmatization technique checks the meaning of the word
48. word2vec is an algorithm used to produce distributed representations

of word or a text

49. skingram type of word2vec attempts to predict the immediate neighbors of a given word

50. image captioning is the process of generating textual description of an image