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 {textbox} 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. ____priciple 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 userelu_____ 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 functio____ 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 lanagauage processing_____ is based on interactions between computer and Human Languages
46. ____speech segmation ___ 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. _skimgram _____ 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

Started on	Thursday, 5 August 2021, 6:33 PM
State	Finished
Completed on	Thursday, 5 August 2021, 6:54 PM
Time taken	20 mins 39 secs
Grade	**26.00** out of 30.00 (**87**%)

Question 1

Correct

Mark 1.00 out of 1.00

_____ is a subset of Machine Learning

- a. Deep Learning ✔
- b. Kaggle
- c. Python
- d. MATLAB

Your answer is correct.

The correct answer is:
Deep Learning

Question 2

Correct

Mark 1.00 out of 1.00

Single Layer Perceptron model uses _____ training procedure

- a. Reinforced
- b. Supervised ✔
- c. Recurrent
- d. Un-Supervised

Your answer is correct.

The correct answer is:
Supervised

Question 3

Correct

Mark 1.00 out of 1.00

_____ Training / Learning process group's the unstructured / Unlabeled data based on distinct features available within the data set

- a. Reinforced
- b. Supervised
- c. Back Propagation networks
- d. Unsupervised ✔

Your answer is correct.

The correct answer is:
Unsupervised

Question 4

Correct

Mark 1.00 out of 1.00

In _____ Training, a reward is provided if the output is correct and a penalty is provided for the wrong answer

- a. Supervised
- b. Reinforced ✔
- c. None of the given options
- d. Un-Supervised

Your answer is correct.

The correct answer is:
Reinforced

Question 5

Correct

Mark 1.00 out of 1.00

In the Gradient Descent algorithm, we move in the direction of

- a. Negative of absolute error difference
- b. All of the given options
- c. Same as the direction of gradient
- d. Negative of the gradient ✔

Your answer is correct.

The correct answer is:
Negative of the gradient

Question 6

Correct

Mark 1.00 out of 1.00

_____ regression is a probabilistic model that classifies the instances in terms of probabilities

- a. Linear
- b. Logistic ✔
- c. Polynomial Regression
- d. None of the given options

Your answer is correct.

The correct answer is:
Logistic

Question 7

Correct

Mark 1.00 out of 1.00

_____ is defined as the average of the squared differences between the actual and the predicted values.

- a. Mean Absolute Error
- b. Mean Error
- c. Error
- d. Mean Squared Error ✔

Your answer is correct.

The correct answer is:
Mean Squared Error

Question 8

Incorrect

Mark 0.00 out of 1.00

_____ is a measure of the difference of the randomness between two random variables.

- a. Weight
- b. Entropy ✖
- c. Cross Entropy
- d. MSE

Your answer is incorrect.

The correct answer is:
Cross Entropy

Question 9

Correct

Mark 1.00 out of 1.00

A network with one Hidden layer or very less number of Hidden Layers is called

- a. Shallow Networks ✔
- b. Deep Networks
- c. Kohonan Networks
- d. Biological Neural Network

Your answer is correct.

The correct answer is:
Shallow Networks

Question 10

Correct

Mark 1.00 out of 1.00

_____ function is used to calculate the output response of a neural network

- a. Loss function
- b. Bias
- c. Weight
- d. Activation function ✔

Your answer is correct.

The correct answer is:
Activation function

Question 11

Correct

Mark 1.00 out of 1.00

By the use of Delt Law (Gradient descent) faster convergence can be achieved

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 12

Correct

Mark 1.00 out of 1.00

Weight is the (random value) information, which is used to solve the problem

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 13

Correct

Mark 1.00 out of 1.00

The sigmoidal Activation function is a differentiable function

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 14

Incorrect

Mark 0.00 out of 1.00

Non-Linear problems (Linear inseparable problems) can be solved by using Single-layer Neural Networks

Select one:

- True ✖
- False

The correct answer is 'False'.

Question 15

Correct

Mark 1.00 out of 1.00

Regularization is used to introduce over-fitting

Select one:

- True
- False ✔

The correct answer is 'False'.

Question 16

Correct

Mark 1.00 out of 1.00

In Regularization, Large values for the parameter alpha denotes _____ regularization

- a. More ✔
- b. Less
- c. None of the given options
- d. Average

Your answer is correct.

The correct answer is:
More

Question 17

Correct

Mark 1.00 out of 1.00

L1 regularization attempts to estimate the _____ of data

- a. Median ✔
- b. Mean
- c. Mode
- d. All of the given options

Your answer is correct.

The correct answer is:
Median

Question 18

Correct

Mark 1.00 out of 1.00

L2 regularization is also known as Lasso regularization

Select one:

- True
- False ✔

The correct answer is 'False'.

Question 19

Correct

Mark 1.00 out of 1.00

Iterative first-order optimization algorithm used to find a local minimum or maximum point of a given function is

- a. Supervised algorithm
- b. SVM
- c. Gradient Descent algorithm ✔
- d. Perceptron algorithm

Your answer is correct.

The correct answer is:
Gradient Descent algorithm

Question 20

Correct

Mark 1.00 out of 1.00

Stochastic Gradient Descent is In-Sensitive to feature scaling

Select one:

- True
- False ✔

The correct answer is 'False'.

Question 21

Correct

Mark 1.00 out of 1.00

_____ Regularization is robust to Outliers

- a. L1 Regularization ✔
- b. L2 Regularization
- c. None of the options given
- d. Both L1 & L2 Regularization

Your answer is correct.

The correct answer is:
L1 Regularization

Question 22

Correct

Mark 1.00 out of 1.00

The limitations of Back Propagation procedures are

- a. Temporal Instability
- b. Local Minima
- c. Network Paralysis
- d. All of the given options ✔

Your answer is correct.

The correct answer is:
All of the given options

Question 23

Correct

Mark 1.00 out of 1.00

Which of the following model has the ability to learn?

- a. Perceptron Model ✔
- b. None of the given options
- c. Both MP and Perceptron Models
- d. MP model

Your answer is correct.

The correct answer is:
Perceptron Model

Question 24

Correct

Mark 1.00 out of 1.00

Real-world data are chaotic in nature, Hence Deep Learning networks need tools to handle this chaotic-natured data's.

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 25

Correct

Mark 1.00 out of 1.00

In SVM, Support vectors are the data points that lie closest to the decision boundary surface.

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 26

Incorrect

Mark 0.00 out of 1.00

In Deep Learning Neural Networks _____ step is not needed

- a. Weight updation
- b. Convolution ✖
- c. Feature Engineering
- d. Error Minimization

Your answer is incorrect.

The correct answer is:
Feature Engineering

Question 27

Correct

Mark 1.00 out of 1.00

Ground Truth or Label is needed for a supervised training algorithm

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 28

Correct

Mark 1.00 out of 1.00

With the help of L2 Regularization, we can able to learn complex data patterns

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 29

Incorrect

Mark 0.00 out of 1.00

The process of modifying the weights in the connections between the network's layers with the objective of achieving the expected output are called _____ process

- a. All of the given options ✖
- b. Training
- c. Synaptic Dynamics
- d. Activation Dynamics

Your answer is incorrect.

The correct answer is:
Training

Question 30

Correct

Mark 1.00 out of 1.00

For Clustering applications we can use _____

- a. Reinforced Learning
- b. Supervised Learning
- c. Unsupervised Learning ✔
- d. Fully Automated Learning

Your answer is correct.

The correct answer is:
Unsupervised Learning

◄ Course Attendance

Jump to...

Continuous Assessment Examinination - 1 ►

Started on	Thursday, 7 October 2021, 7:15 PM
State	Finished
Completed on	Thursday, 7 October 2021, 7:26 PM
Time taken	10 mins 44 secs
Grade	**25.00** out of 30.00 (**83**%)

Question 1

Correct

Mark 1.00 out of 1.00

Given a sound clip of a person or people speaking, determining the textual representation of the speech is related to

- a. Text to Image
- b. Text to Speech
- c. Image to Text
- d. Speech to Text ✔

Your answer is correct.

The correct answer is:
Speech to Text

Question 2

Incorrect

Mark 0.00 out of 1.00

Deep Learning Neural Networks can not be used for Gathering Image Captions

Select one:

- True ✖
- False

The correct answer is 'False'.

Question 3

Correct

Mark 1.00 out of 1.00

_____ type of word2vec attempts to predict the immediate neighbors of a given word

- a. CBOW Model
- b. Wavelet Model
- c. Perceptron Model
- d. Skip Gram Model ✔

Your answer is correct.

The correct answer is:
Skip Gram Model

Question 4

Correct

Mark 1.00 out of 1.00

NLP is based on the interactions between Human Languages and Computers

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 5

Correct

Mark 1.00 out of 1.00

The process in which the output is obtained as probabilities of Target words by compressing the larger input vectors is called

- a. Word2Vec ✔
- b. Wavenet
- c. ResNet
- d. AlexNet

Your answer is correct.

The correct answer is:
Word2Vec

Question 6

Incorrect

Mark 0.00 out of 1.00

Relu Activation function can be used at the output layer of a Deep Learning Neural Network

Select one:

- True ✖
- False

The correct answer is 'False'.

Question 7

Correct

Mark 1.00 out of 1.00

Spatial Transformer Networks can Learn _____ , _____ & _____ Transformations

- a. Affine ,Projective & Thin Plate Spline Transformation ✔
- b. ,Isometric, Projective & Thin Plate Spline Transformation
- c. Affine , Scaling & Thin Plate Spline Transformation
- d. Affine ,Projective & Homomorphic Transformation

Your answer is correct.

The correct answer is:
Affine ,Projective & Thin Plate Spline Transformation

Question 8

Correct

Mark 1.00 out of 1.00

NLP procedures fail when it comes to the handling of ambiguity present in sentences

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 9

Correct

Mark 1.00 out of 1.00

The accuracy of a Deep Learning based Facial Recognition system depends on

- a. Lightning Condition
- b. Make up conditions
- c. Face Position
- d. All of the given options ✔

Your answer is correct.

The correct answer is: All of the given options

Question 10

Correct

Mark 1.00 out of 1.00

Word2Vec model is used for creating word embedding.

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 11

Incorrect

Mark 0.00 out of 1.00

In Concatenative type TTS, the information required to generate the data is stored in the parameter of the model itself

Select one:

- True ✖
- False

The correct answer is 'False'.

Question 12

Incorrect

Mark 0.00 out of 1.00

In NLP, IR (Information Retrieval) and IE (Information Extraction) are the two same things.

Select one:

- True ✖
- False

The correct answer is 'False'.

Question 13

Incorrect

Mark 0.00 out of 1.00

For Image Scene Understanding applications Convnets can not be used.

Select one:

- True ✖
- False

The correct answer is 'False'.

Question 14

Correct

Mark 1.00 out of 1.00

The Image database with millions of images organized as per Wordnet Hierarchy is called

- a. MINIMIAS database
- b. ImageNet ✔
- c. Image Model
- d. ICMRI Data Base

Your answer is correct.

The correct answer is:
ImageNet

Question 15

Correct

Mark 1.00 out of 1.00

_____ technique checks the meaning of the word in NLP process

- a. Text Compression
- b. Lemmatization ✔
- c. Filtering
- d. None of the options given

Your answer is correct.

The correct answer is:
Lemmatization

Question 16

Correct

Mark 1.00 out of 1.00

Speech segmentation is the subtask of Speech Recognition

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 17

Correct

Mark 1.00 out of 1.00

Deep Learning Neural Networks can be used for

- a. Image Analysis
- b. Face Recognition
- c. Speech Recognition
- d. All the given options ✔

Your answer is correct.

The correct answer is:
All the given options

Question 18

Correct

Mark 1.00 out of 1.00

IN Wavenet, the text is transformed into a sequence of _____ features

- a. Linguistic features ✔
- b. None of the given options
- c. Text features
- d. Morphology features

Your answer is correct.

The correct answer is:
Linguistic features

Question 19

Correct

Mark 1.00 out of 1.00

Breathing and mouth movement sounds are also generated by WAVENET's.

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 20

Correct

Mark 1.00 out of 1.00

The WAVENET can swap the voice of an audio recording for another, pre-existing voice while maintaining the text and other features from the original recording

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 21

Correct

Mark 1.00 out of 1.00

Word2Vec learns the relationship between words automatically

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 22

Correct

Mark 1.00 out of 1.00

Word2Vec model embeds words in a lower-dimensional vector space using a shallow neural network

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 23

Correct

Mark 1.00 out of 1.00

In NLP, The process of breaking a sentence into different tokens is known as Stemming process

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 24

Correct

Mark 1.00 out of 1.00

The stemming tokens are converted into numbers before supplying them to the Neural Network model

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 25

Correct

Mark 1.00 out of 1.00

Wavenet is a_____ model which is trained on Speech samples

- a. Complex
- b. Generative ✔
- c. Linear
- d. Simple

Your answer is correct.

The correct answer is:
Generative

Question 26

Correct

Mark 1.00 out of 1.00

Image Caption Generator identifies the context of images given as input and describe them in natural language

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 27

Correct

Mark 1.00 out of 1.00

The Image captioning model can be divided into Image-based model & Language based model

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 28

Correct

Mark 1.00 out of 1.00

Image-Based model present in Image Caption Generation procedure is used to extract the features of Images

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 29

Correct

Mark 1.00 out of 1.00

Language-based model of Image caption generation procedure translates the features of the input image to a natural language-based sentence

Select one:

- True ✔
- False

The correct answer is 'True'.

Question 30

Correct

Mark 1.00 out of 1.00

A convolution Neural Network can be used to classify the proteins from the FASTA Protein sequence database.

Select one:

- True ✔
- False

The correct answer is 'True'.

◄ SECA4002-DLNN- Assignment-2

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