

# Applied Data Science - Quiz 1

Name \*

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B7-1A3E



Data Science is a ?

- ☐ Branch of statistics
- ☐ Branch of computer science
- ☐ Branch of artificial intelligence
- ☒ Interdisciplinary, made up of all of the above

Machine learning is a subset of ?

- ☐ Data Science
- ☒ Deep Learning
- ☐ Artificial Intelligence
- ☐ None of the above

Who developed Python Programming Language ?

- ☐ Wick van Rossum
- ☒ Guido van Rossum

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- ☒ Guido van Rossum
- ☐ Rasmus Lerdorf
- ☐ Niene Stom

Which of the following is the correct extension of the Python file ?

- ☒ .py
- ☐ .pl
- ☐ .python
- ☐ .p

What will be the output of the following Python code snippet?

```
for i in [1, 2, 3, 4][::-1]:  
    print (i)
```

- ☐ 4 3 2 1

What will be the output of the following Python code snippet?

```
for i in [1, 2, 3, 4][::-1]:  
    print (i)
```

- ☐ 4 3 2 1
- ☒ error
- ☐ 1 2 3 4
- ☐ none of the mentioned

If there are missing values in Categorical column, how do we deal with?

- ☐ Replace with Mean value
- ☐ Replace with Median
- ☐ Replace with Mode value
- ☒ Replace with Quantile value

What is the use of the zeros() function in Numpy array in python ?

- ☐ To make a Matrix with first row 0

What is the use of the zeros() function in Numpy array in python ?

- ☐ To make a Matrix with first row 0
- ☒ To make a Matrix with all element 0
- ☐ To make a Matrix with all diagonal element
- ☐ None of the above

What is a correct syntax to return the first row in a Pandas DataFrame?

- ☐ df.get(0)
- ☒ df.loc[0]
- ☐ df[0]
- ☐ df

How do you get the list of columns that have null values in a DataFrames?

- ☐ df.isnull().sum()
- ☐ df.isnull().any()
- ☒ df.isnull()

How do you get the list of columns that have null values in a DataFrames?

- ☐ `df.isnull().sum()`
- ☐ `df.isnull().any()`
- ☒ `df.isnull()`
- ☐ `df.info()`

To check the distribution of Numeric column ,which type of graph we will use ?

- ☒ Box plot
- ☐ Scatter plot
- ☐ Dist plot
- ☐ heat map

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Which of the following is a branch of statistics?

- ☐ Descriptive statistics
- ☐ Inferential statistics
- ☐ Industry statistics
- ☒ Both A and B

The runs scored by a batsman in 5 ODIs are 31,97,112, 63, and 12. The mean is

- ☐ 112
- ☒ 63
- ☐ 97
- ☐ 12

Which of the following is not a visualization under matplotlib

- ☐ Scatter plot
- ☐ Histogram
- ☐ Box plot



Which of the following is not a visualization under matplotlib

- ☐ Scatter plot
- ☐ Histogram
- ☐ Box plot
- ☒ Table plot

To handle the null values in your data which method is used?

- ☒ isnull()
- ☐ isfull()"
- ☐ fillna()
- ☐ fullna()

Which of the following sklearn method is used to split the data into training and testing

- ☐ test\_split()
- ☒ train\_test\_split()
- ☐ test\_train\_split()

Which of the following is correct to import the matplotlib library

- ☐ import plt.matplotlib as plot
- ☐ import plot.matplotlib as pt
- ☐ import [matplotlib.pyplot](#) as plot
- ☒ import matplotlib.pyplot as plt

Which method is used for encoding the categorical variables

- ☐ One Hot Encoder
- ☒ Category Encoder
- ☐ Label Encoder
- ☐ Both A & C

Which statistical method we can use for replacing missing values for categorical feature

- ☐ Mean
- ☐ Median

Which statistical method we can use for replacing missing values for categorical feature

- ☐ Mean
- ☐ Median
- ☐ Mode
- ☒ All of the above

Which function we use to get descriptive statistics for the data

- ☒ `description()`
- ☐ `describe()`
- ☐ `statistics()`
- ☐ None of the above

Identify the outlier for the given data  
34,23,43,28,56,125,52,40,26,24,37,25

- ☐ 56
- ☒ 23

Which function we use to get descriptive statistics for the data

- ☒ description()
- ☐ describe()
- ☐ statistics()
- ☐ None of the above

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- ☐ 56
- ☒ 23
- ☐ 125
- ☐ 34

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Linear Regression is a machine learning algorithm based on \*

- ☐ unsupervised learning
- ☒ supervised learning
- ☐ reinforcement learning
- ☐ none of these

Regression models a target prediction value based on \*

- ☐ dependent variable
- ☒ independent variables
- ☐ independent value
- ☐ dependent value

Regression technique finds out a linear relationship between  $x$  (input) and  $y$  (output) hence it is called as \*

- ☐ Hypothesis function
- ☐ Related regression
- ☒ Linear Regression

- ☐ Hypothesis function
- ☐ Related regression
- ☒ Linear Regression
- ☐ none of these

Which Machine Learning technique use for dealing Categorical data? \*

- ☒ Regression
- ☐ Classification
- ☐ Clustering
- ☐ All of the above

How do you choose the root node while constructing a Decision Tree? \*

- ☐ "An attribute having high entropy
- ☒ "An attribute having largest information gain
- ☐ "An attribute having high entropy and Information gain
- ☐ None of the Mentioned

Choose a disadvantage of decision trees among the following. \*

- ☒ Decision trees are robust to outliers
- ☐ Factor analysis
- ☐ Decision trees are prone to overfit
- ☐ none of these

What is the term known as on which the machine learning algorithms build a model based on sample data? \*

- ☐ Data training
- ☒ Training data
- ☐ Transfer data
- ☐ None of the above

Machine learning is a subset of which of the following. \*

- ☒ Artificial Intelligence
- ☐ Deep learning
- ☐ NLP



The father of machine learning is \*

- ☒ Geoffrey Everest Hinton
- ☐ Geoffrey hill
- ☐ Geoffrey chaucer
- ☐ Micheal Geoffrey

Suppose you got a training accuracy of 90% and a test accuracy of 50%. What happened with your model \*

- ☐ The model was over fitted with the training data
- ☒ The model was under fitted with the training data
- ☐ The model is absolutely fine
- ☐ None of the above

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KNN Algorithm can be used for \*

- ☐ Only for Classification
- ☐ Only for Regression
- ☒ Both Classification and Regression
- ☐ None of the Mentioned

The goal of clustering a set of data is to \*

- ☐ divide them into groups of data that are near each other
- ☒ choose the best data from the set
- ☐ determine the nearest neighbors of each of the data
- ☐ predict the class of data

The most commonly used measure of similarity is the \_\_\_\_ or its square. \*

- ☒ euclidean distance
- ☐ city-block distance
- ☐ Chebychev's distance

Which of the following is required by K-means clustering? \*

- ☐ defined distance metric
- ☐ number of clusters
- ☐ initial guess as to cluster centroids
- ☒ All of the above

which of the following is an ibm cloud service \*

- ☐ IBM watson
- ☐ IBM NODRED
- ☐ AUTO-AI
- ☒ All of the above

Which cross validation method use for hyperparameter tuning in machine learning \*

- ☐ Grid-searchcv
- ☐ Randomisedsearchcv
- ☒ BOTH

- ☐ Grid-searchcv
- ☐ Randomisedsearchcv
- ☒ BOTH
- ☐ None of the above

Techniques used for handling imbalanced dataset \*

- ☐ SMOTE
- ☐ Option OVERSAMPLING
- ☒ UNDERSAMPLING
- ☐ All of the above

Flask is a web development framework created in \_\_\_\_\_ language \*

- ☐ c
- ☒ Python
- ☐ Java
- ☐ Javascript

☐ Javascript

What is WSGI? \*

- ☒ Web Server Gateway Interface
- ☐ Web Service Gateway Interface
- ☐ Website Server Gateway Interface
- ☐ Web Static Gateway Interface

What is the purpose of the Kernel Trick? \*

- ☐ To transform the problem from supervised to unsupervised learning.
- ☐ To transform the problem from regression to classification
- ☒ To transform the data from nonlinearly separable to linearly separable
- ☐ To transform the problem from supervised to unsupervised learning

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