

DATA SCIENCE FINAL Quiz

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 Draft saved

Questions

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

2 points

```
z=set('abc$de')  
'a' in z
```

- ☐ Error
- ☒ True
- ☐ False
- ☐ No output

[Clear selection](#)

What will be the output of the following Python code?

2 points

```
x = [i for i in range(3)]  
for i in x:  
    print(i)
```

- ☒ 0 1 2
- ☐ error
- ☐ 0 1 2 0 1 2
- ☐ none of the mentioned

[Clear selection](#)



What does the following Python sequence print out?

2 points

```
X = 'From: Using the : character'
```

```
Y = re.findall('^F.+:',X)
```

```
Print(Y)
```

- ☐ :
- ☐ From:
- ☒ ['From: Using the :']
- ☐ ['From:']
- ☐ ^F.+:

Clear selection

What is a python library that can be used to send and receive data over HTTP?

2 points

- ☒ urllib
- ☐ port
- ☐ http
- ☐ header

Clear selection



What will be the output of the following Python code?

2 points

```
def f(p, q, r):  
    global s  
    p = 10  
    q = 20  
    r = 30  
    s = 40  
    print(p, q, r, s)  
p, q, r, s = 1, 2, 3, 4  
f(5, 10, 15)
```

- ☐ 1 2 3 4
- ☐ 5 10 15 4
- ☒ 10 20 30 40
- ☐ 5 10 15 40

Clear selection

How is machine learning related to artificial intelligence?

2 points

- ☐ Artificial intelligence focuses on classification, while machine learning is about clustering data.
- ☒ Machine learning is a type of artificial intelligence that relies on learning through data.
- ☐ Artificial intelligence is form of unsupervised machine learning.
- ☐ Machine learning and artificial intelligence are the same thing.

Clear selection



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

2 points

```
x = 'abcd'
for i in range(len(x)):
    x = 'a'
    print(x)
```

- ☐ a
- ☐ abcd abcd abcd
- ☒ a a a a
- ☐ none of the mentioned

Clear selection

You work for a music streaming service and want to use supervised machine learning to classify music into different genres. Your service has collected thousands of songs in each genre, and you used this as your training data. Now you pull out a small random subset of all the songs in your service. What is this subset called?

2 points

- ☐ data cluster
- ☒ test data
- ☐ Supervised set
- ☐ big data

Clear selection



What will be the output of the following Python code?

2 points

```
string = "my name is x"  
for i in string:  
    print (i, end=", ")
```

- ☒ m, y, , n, a, m, e, , i, s, , x,
- ☐ m, y, , n, a, m, e, , i, s, , x
- ☐ my, name, is, x,
- ☐ error

Clear selection

What is the type of the return value of the re.findall() method?

2 points

- ☐ A Boolean
- ☐ A single character
- ☒ A list of strings
- ☐ An Integer
- ☐ A string

Clear selection



What provides two way communication between two different programs in a network. 2 points

- ☒ Socket
- ☐ Port
- ☐ http
- ☐ protocol

Clear selection

What will be the output of the following Python code?

2 points

```
string = "my name is x"
for i in string.split():
    print (i, end=", ")
```

- ☐ m, y, , n, a, m, e, , i, s, , x
- ☐ m, y, , n, a, m, e, , i, s, , x,,
- ☒ my, name, is, x,
- ☐ error

Clear selection



Which function overloads the + operator?

2 points

- ☒ `__add__()`
- ☐ `__plus__()`
- ☐ `__sum__()`
- ☐ none of the mentioned

Clear selection

What will be the output of the following Python program?

2 points

```
i = 0
while i < 5:
    print(i)
    i += 1
    if i == 3:
        break
else:
    print(0)
```

- ☐ error
- ☐ 0 1 2 0
- ☒ 0 1 2
- ☐ none of the mentioned

Clear selection



In this type of Machine Learning, an AI system is presented with unlabeled, uncategorized data and the system's algorithms act on the data without prior training. The output is dependent upon the coded algorithms. 2 points

- ☐ Supervised Learning
- ☒ Unsupervised Learning
- ☐ Learning and Teaching
- ☐ Reinforcement Learning

Clear selection

What is the most common Unicode encoding when moving data between systems? 2 points

- ☒ UTF-8
- ☐ UTF-16
- ☐ UTF-32
- ☐ UTF-64

Clear selection

What are the three types of Machine Learning? Choose three. 2 points

- ☒ Supervised Learning
- ☐ Learning Differentiated
- ☒ Unsupervised Learning
- ☒ Reinforcement Learning



What will be the output of the following Python code?

2 points

```
1.class tester:
2.    def __init__(self, id):
3.        self.id = str(id)
4.        id="224"
5.
6.>>>temp = tester(12)
7.>>>print(temp.id)
```

- ☒ 12
- ☐ 224
- ☐ None
- ☐ Error

Clear selection

How are strings stored internally in Python 3?

2 points

- ☐ EBCDIC
- ☐ ASCII
- ☐ Byte Code
- ☒ Unicode

Clear selection



Suppose you are working on stock market prediction. You would like to predict whether or not a certain company will declare bankruptcy within the next 7 days (by training on data of similar companies that had previously been at risk of bankruptcy). Would you treat this as a classification or a regression problem?

2 points

- ☐ Regression
- ☒ Classification

Clear selection

You are part of data science team that is working for a national fast-food chain. You create a simple report that shows trend: Customers who visit the store more often and buy smaller meals spend more than customers who visit less frequently and buy larger meals. What is the most likely diagram that your team created?

2 points

- ☐ multiclass classification diagram
- ☒ linear regression and scatter plots
- ☐ pivot table
- ☐ K-means cluster diagram

Clear selection



What is the process by which search engines retrieve webpages and build a search index called? 2 points

- ☐ scrape
- ☐ parse
- ☐ BeautifulSoup
- ☒ spider

Clear selection

In traditional computer programming, you input commands. What do you input with machine learning? 2 points

- ☐ Pattern
- ☒ Data
- ☐ Programs
- ☐ Rules

Clear selection



What will be the output of the following Python code?

2 points

```
for i in range(10):  
    if i == 5:  
        break  
    else:  
        print(i)  
else:  
    print("Here")
```

- ☐ 0 1 2 3 4 Here
- ☐ 0 1 2 3 4 5 Here
- ☒ 0 1 2 3 4
- ☐ 1 2 3 4 5

Clear selection

What does the "H" of HTTP stand for?

2 points

- ☐ Simple
- ☐ wHolsitic
- ☒ HyperText
- ☐ HyperSpeed

Clear selection



Suppose you are working on weather prediction, and use a learning algorithm to predict tomorrow's temperature (in degrees Centigrade/Fahrenheit). Would you treat this as a classification or a regression problem?

2 points

- ☒ Regression
- ☐ Classification

Clear selection

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

2 points

```
x = 2
for i in range(x):
    x -= 2
    print (x)
```

- ☐ 0 1 2 3 4 ...
- ☒ 0 -2
- ☐ 0
- ☐ error

Clear selection

I.B.M.'s _____ system beat the world champion of chess, the grand-master.

2 points

- ☐ Deep Sea
- ☐ Deep Ocean
- ☐ Deep Lake
- ☒ Deep Blue

Clear selection



What protocol can be used to retrieve web pages using python?

2 points

- ☐ urllib
- ☐ bs4
- ☒ HTTP
- ☐ GET

Clear selection

What ends up in the “x” variable in the following code?

2 points

```
html = urllib.request.urlopen(url).read()
soup = BeautifulSoup(html, 'html.parser')
x = soup('a')
```

- ☒ A list of all the anchor tags (<a..) in the HTML from the URL
- ☐ True if there were any anchor tags in the HTML from the URL
- ☐ All of the externally linked CSS files in the HTML from the URL
- ☐ All of the paragraphs of the HTML from the URL

Clear selection



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

2 points

```
a = [0, 1, 2, 3]
i = -2
for i not in a:
    print(i)
    i += 1
```

- ☐ -2 -1
- ☐ 0
- ☒ error
- ☐ none of the mentioned

Clear selection

What will be the output of the following Python code?

2 points

```
1. def maximum(x, y):
2.     if x > y:
3.         return x
4.     elif x == y:
5.         return 'The numbers are equal'
6.     else:
7.         return y
8.
9. print(maximum(2, 3))
```

- ☐ 2
- ☒ 3
- ☐ The numbers are equal
- ☐ None of the mentioned

Clear selection



What will be the output of the following Python code?

2 points

```
def f1(x):  
    global x  
    x+=1  
    print(x)  
f1(15)  
print("hello")
```

- ☒ error
- ☐ hello
- ☐ 16
- ☐ 16 hello

Clear selection

_____ algorithms enable the computers to learn from data, and even improve themselves, without being explicitly programmed. 2 points

- ☐ Artificial Intelligence
- ☐ Deep Learning
- ☐ Traditional Learning
- ☒ Machine Learning

Clear selection



What will be the output of the following Python code?

2 points

```
class change:
    def __init__(self, x, y, z):
        self.a = x + y + z

x = change(1, 2, 3)
y = getattr(x, 'a')
setattr(x, 'a', y+1)
print(x.a)
```

- ☐ 6
- ☐ 7
- ☒ error
- ☐ 0

Clear selection

What is the purpose of the BeautifulSoup Python library?

2 points

- ☐ It allows a web site to choose an attractive skin
- ☐ It optimizes files that are retrieved many times
- ☒ It repairs and parses HTML to make it easier for a program to understand
- ☐ It builds word clouds from web pages

Clear selection



In this kind of Machine Learning, an AI system is presented with data which is labeled, which means that each data tagged with the correct label. 2 points

- ☒ Supervised Learning
- ☐ Unsupervised Learning
- ☐ Learning and Teaching
- ☐ Reinforcement Learning

Clear selection

What does the following block of code do?

2 points

```
url = "https://www.nytimes.com"
html = urllib.request.urlopen(url, context=ctx).read()
soup = BeautifulSoup(html, 'html.parser')
```

- ☐ retrieves and displays the webpage
- ☐ downloads the webpage
- ☒ parses the html content of the "<https://www.nytimes.com>" webpage.

Clear selection



What would the following mean in a regular expression? [a-z0-9]

2 points

- ☐ Match anything but a lowercase letter or digit
- ☐ Match any number of lowercase letters followed by any number of digits
- ☒ Match a lowercase letter or a digit
- ☐ Match an entire line as long as it is lowercase letters or digits
- ☐ Match any text that is surrounded by square braces

Clear selection

What is an example of a commercial application for a machine learning system?

2 points

- ☐ a data entry system
- ☒ a product recommendation system
- ☐ a data warehouse system
- ☐ a massive data repository

Clear selection



What will be the output of the following Python code?

2 points

```
def san(x):  
    print(x+1)  
x=-2  
x=4  
san(12)
```

- ☒ 13
- ☐ 10
- ☐ 2
- ☐ 5

Clear selection

What device below is not an example of Machine Learning?

2 points

- ☐ Wearable fitness tracker
- ☐ Google Assistant
- ☐ Speech to Text
- ☒ None of the above.

Clear selection



What does the following block of code do?

2 points

```
import urllib.request

fhand = urllib.request.urlopen('http://data.pr4e.org/romeo.txt')
for line in fhand:
    print(line.decode().strip())
```

- ☐ It creates a file named 'romeo.txt' in 'data.pr4e.org'
- ☐ It finds the urls linked to 'data.pr4e.org' and prints it.
- ☐ It opens a file named '<http://data.pr4e.org/romeo.txt>' in local storage
- ☒ It prints the contents of 'romeo.txt' after retrieving it from 'data.pr4e.org'

Clear selection

What will be the output of the following Python function?

2 points

```
len(["hello",2, 4, 6])
```

- ☐ Error
- ☐ 6
- ☒ 4
- ☐ 3

Clear selection



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

2 points

```
a = [0, 1, 2, 3]
for a[-1] in a:
    print(a[-1])
```

- ☐ 0 1 2 3
- ☐ 3 3 3 3
- ☒ 0 1 2 2
- ☐ error

Clear selection

This type of Machine Learning learns by interacting with its environment.

2 points

The agent receives rewards by performing correctly and penalties for performing incorrectly. The agent learns without intervention from a human by maximizing its reward and minimizing its penalty. It is a type of dynamic programming that trains algorithms using a system of reward and punishment.

- ☐ Supervised Learning
- ☐ Unsupervised Learning
- ☐ Learning and Teaching
- ☒ Reinforcement Learning

Clear selection



What are the two types of Supervised Learning?

2 points

- ☒ Classification
- ☐ Declassification
- ☐ Progression
- ☒ Regression

What will be the output of the following Python code?

2 points

```
1. def power(x, y=2):  
2.     r = 1  
3.     for i in range(y):  
4.         r = r * x  
5.     return r  
6. print power(3)  
7. print power(3, 3)
```

- ☐ 212 32
- ☐ 9 27
- ☐ 567 98
- ☒ None of the mentioned

Clear selection



What does the following block of code print?

2 points

```
url = "https://www.nytimes.com/"
html = urllib.request.urlopen(url).read()
soup = BeautifulSoup(html, 'html.parser')

tags = soup('img')
for tag in tags:
    print(tag.get('src', None))
```

- ☐ retrieves and displays the webpage
- ☐ downloads the webpage
- ☒ prints all the 'img' sources under 'src' from www.nytimes.com
- ☐ prints the images from www.nytimes.com

Clear selection

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

2 points

```
a = [0, 1, 2, 3]
for a[0] in a:
    print(a[0])
```

- ☐ 0 1 2 2
- ☐ 3 3 3 3
- ☒ 0 1 2 3
- ☐ error

Clear selection

Page 2 of 2

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