

Machine Learning With Python

Scholarship Test

* Required

Email address *

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earnings = [[[500,505,490], [810,450,678], [234,897,430],
[560,1023,640]], [[600,605,490], [345,900,1000],
[780,730,710], [670,540,324]]] What is the shape of given matrix? 2 points

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Change the age in row 'f' to 1.5. 2 points

- ☐ df.loc[:, 'age'] = 1.5
- ☐ df.iloc['f', 'age'] = 1.5
- ☐ df.loc['f', 'age'] = 1.5
- ☐ None of the above



import numpy as np a = np.arange(10) print a[2:] What is the output?

2 points

- ☐ [2 3 4 5 6 7 8 9 10]
- ☐ [3 4 5 6 7 8 9]
- ☐ [2 3 4 5 6 7]
- ☐ [2 3 4 5 6 7 8 9]

import pandas as pd data = {'animal': ['cat', 'cat', 'snake', 'dog', 'dog', 'cat', 'snake', 'cat', 'dog', 'dog'], 'age': [2.5, 3, 0.5, np.nan, 5, 2, 4.5, np.nan, 7, 3], 'visits': [1, 3, 2, 3, 2, 3, 1, 1, 2, 1], 'priority': ['yes', 'yes', 'no', 'yes', 'no', 'no', 'no', 'yes', 'no', 'no']} labels = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j'] Create a DataFrame df from this dictionary data which has the index labels.

2 points

Suppose list1 is [2, 33, 222, 14, 25], What is list1[-2] ?

1 point

- ☐ 33
- ☐ 2
- ☐ 222
- ☐ 25
- ☐ none of the above

Return the first 3 rows of the DataFrame df

2 points

What is the output of the following? `x = ['ab', 'cd']` for `i` in `x`:
`x.append(i.upper())` `print(x)` Assume Indentation is correct

2 points

- ☐ ['AB', 'CD']
- ☐ ['ab', 'cd', 'AB', 'CD']
- ☐ Option 3
- ☐ none of the mentioned

Count the number of each type of animal in `df`.

2 points

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Which of the following is not the correct syntax for creating a set?

1 point

- ☐ `set([[1,2],[3,4]])`
- ☐ `set([1,2,2,3,4])`
- ☐ `set((1,2,3,4))`
- ☐ `{1,2,3,4}`

`print('*', "abcde".center(6), '*', sep="")`

2 points

- ☐ `* abcde *`
- ☐ Option 2
- ☐ `*abcde *`
- ☐ `* abcde*`



What is the output of the following? `x = ['ab', 'cd']`
`print(len(list(map(list, x))))`

2 points

- ☐ 2
- ☐ 4
- ☐ 0
- ☐ A TypeError occurs as map has no len().
- ☐ None of the above

`list(filter(lambda x:x>5,range(8)))`

2 points

- ☐ [6, 7, 8]
- ☐ [5, 7]
- ☐ [7, 8]
- ☐ None of the above

What is the output of the following? `x = ['ab', 'cd']`
`print(len(map(list, x)))`

2 points

- ☐ 2
- ☐ A TypeError occurs as map has no len().
- ☐ 4
- ☐ No Error but no output

What is the output of the following? `i = 1 while True: if i%3 == 0: break print(i) i += 1` Assume Indentation is correct

2 points

☐ 1 2

☐ 1 2 3

☐ error

☐ none of the mentioned

☐ Other:

Create a 5x5 identity matrix. `a=?`

2 points

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What is the output of the following? `try: if '1' != 1: raise`

2 points

☐ some Error has occurred

☐ some Error has not occurred

☐ invalid code

☐ none of the above

Why we prefer python in machine learning

2 points

☐ Easy data base access

☐ Large Community to support

☐ Easy to learn

☐ Readily available libraries

☐ Other:



`list(map(lambda x:x**2,range(8)))`

2 points

- ☐ [0, 1, 4, 9, 16, 25, 35, 49]
- ☐ [0, 1, 4, 9, 16, 25, 36, 48]
- ☐ [0, 1, 5, 9, 16, 25, 36, 49]
- ☐ [0, 1, 4, 9, 16, 25, 36, 49]
- ☐ [0, 1, 4, 9, 15, 25, 36, 49]

What is the output of the following? `True = False while True: print(True) break` 2 points

- ☐ True
- ☐ False
- ☐ None
- ☐ none of the mentioned

Python is a ?

1 point

- ☐ Compile based Language
- ☐ JVM Based Language
- ☐ Interpreter Based Language

Create a numpy vector with values ranging from 10 to 49 . a = ? 2 points

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What is the output of the following? `i = 1 while True: if i%2 == 0: break print(i) i += 2` Assume Indentation is correct 2 points

- ☐ 1
- ☐ 1 2
- ☐ 1 2 3 4 5 6 ...
- ☐ 1 3 5 7 9 11 ...

`data_1 = {'state': ['VA', 'VA', 'VA', 'MD', 'MD'], 'year': [2012, 2013, 2014, 2014, 2015], 'pop': [5.0, 5.1, 5.2, 4.0, 4.1]}` `df_1 = DataFrame(data_1)` `df_1` Retrieve only the state column? 2 points

Calculate the mean age for each different animal in `df`. 2 points

- ☐ `df.groupby['animal']['age'].mean()`
- ☐ `df.groupby('animal')['age'].sum()`
- ☐ `df.groupby('animal')['age'].mean()`
- ☐ Option 4
- ☐ Other:

Select just the 'animal' and 'age' columns from the DataFrame `df`. 2 points

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Which of the following is an invalid statement?

1 point

- ☐ `abc = 1,000,000`
- ☐ `a b c = 1000 2000 3000`
- ☐ `a,b,c = 1000, 2000, 3000`
- ☐ `a_b_c = 1,000,000`

What is the output of the following? `x = ['ab', 'cd']` for `i in x:`
`i.upper() print(x)` Assume Indentation is correct

2 points

- ☐ Option 1
- ☐ ['AB', 'CD']
- ☐ [None, None]
- ☐ none of the mentioned
- ☐ Indendation error

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