

AWP Final Assessment

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TE MARKS (/PACKAGE-COST-DETAILS/REGENERATE-MARKS?STUDENTID=21950&ASSESSMENTID=226612)

Score Obtained:

47/50 (94%)

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VIEW REPORT

NumPY stands for?

- ☐ Numbering Python

☐ Number In Python

☒ Numerical Python

☐ None Of the above
- 1/1
- ATTEMPTED

2.
Numpy developed by?

- ☐ Guido van Rossum

☒ Travis Oliphant

☐ Wes McKinney

☐ Jim Hugunin
- 1/1
- ATTEMPTED

3.
NumPy is often used along with packages like?

1/1

ATTEMPTED

- ☐ Node.js
- ☐ Matplotlib
- ☐ SciPy
- ☒ Both B and C

4.

The most important object defined in NumPy is an N-dimensional array type called?

- ☒ ndarray
- ☐ ndarray
- ☐ nd_array
- ☐ darray

1/1

ATTEMPTED

5. In a NumPy array, what term is used to describe the number of dimensions?

1/1

ATTEMPTED

- ☐ Axis
- ☒ Rank
- ☐ Shape
- ☐ Element

6. How do you access a specific element in a NumPy array?

1/1

ATTEMPTED



Using the locate() function

- ☐ With the get() method
- ☒ Through indexing, e.g., array[2]
- ☐ By applying the find() function

7. What is the purpose of the numpy.arange() function?

1/1

ATTEMPTED

- ☒ To create an array with evenly spaced values within a given range
- ☐ To count the number of elements in an array
- ☐ To reverse the order of elements in an array
- ☐ To find the minimum value in an array

8. In NumPy, what does "vectorization" refer to?

1/1

ATTEMPTED

- ☐ The process of creating vectors
- ☒ The ability to perform operations on entire arrays without the need for explicit looping
- ☐ Converting arrays into matrices
- ☐ Sorting elements in an array

9.
Pandas is an open-source _____ Library?

1/1

ATTEMPTED

- ☐ Ruby
- ☐ Javascript

☐ Java

☒ Python

10.

What will be output for the following code?

```
import pandas as pd
```

```
s = pd.Series([1,2,3,4,5],index = ['a','b','c','d','e'])
```

```
print s['a']
```

☒ 1

1/1

ATTEMPTED

☐ 2

☐ 3

☐ 4

11. In Pandas, what is a DataFrame? a. A single value b. A two-dimensional labeled data structure with columns that can be of different data types c. A plotting library d. A statistical analysis tool

1/1

ATTEMPTED

☐ A single value

☒ A two-dimensional labeled data structure with columns that can be of different data types

☐ A plotting library

- ☐ A statistical analysis tool

12. In a Pandas DataFrame, what does the expression `df.iloc[2, 7]` refer to?

1/1

ATTEMPTED

- ☒ The element in the second row and seventh column
- ☐ The element in the seventh row and second column
- ☐ The seventh element in the second column
- ☐ The second element in the seventh row

13.

Which are pros of data visualization?

1/1

ATTEMPTED

- ☒ It can be accessed quickly by a wider audience.
- ☐ It can misrepresent information
- ☐ It can be distracting
- ☐ None Of the above

14.

Data can be visualized using?

1/1

ATTEMPTED

- ☒ graphs
- ☐ charts
- ☐ maps

- ☒ All of the above

15. The best suitable chart to display Data Trends is

1/1

ATTEMPTED

- ☐ Bar Chart
- ☒ Line chart
- ☐ Pie Chart
- ☐ Histogram

16.

What is the output of the following?

```
import numpy as np
x=np.array([1,2,3,6,10])
y=x
z=np.copy(x)
print(x)
print(y)
print(z)
```

- ☐ [1,2,3,6,10] [1,2,3,6,10]
- ☒ [1,2,3,6,10] [1,2,3,6,10] [1,2,3,6,10]
- ☐ [1,2,3,6]
- ☐ [1,2,3,6] [1,2,3,6,10]

1/1

ATTEMPTED

17.

What will be printed?

```
import numpy as np
a = np.array([1,2,3,5,8])
b = np.array([0,3,4,2,1])
c = a + b
c = c*a
print (c[2])
```

☐ 7

1/1

ATTEMPTED

☐ 12

☐ 10

☒ 21

18. Which of the following are advantages of Numpy?

1/1

ATTEMPTED

☐ Array oriented computing

☐ Efficiently implemented multi-dimensional arrays

☐ Designed for scientific computation

☒ All of these

19. Which of the following represents the number of dimensions in ndarray?

1/1

ATTEMPTED

☒ ndim

☐ shape

- ☐ size
- ☐ dtype

20. Which of the following returns the total number of elements in the ndarray?

1/1

ATTEMPTED

- ☐ ndim
- ☐ shape
- ☒ size
- ☐ dtype

21.

Point out the correct statement.

- ☐ Statsmodels provides powerful statistics, econometrics, analysis and modeling functionality that is out of panda's scope
- ☐ Vintage leverages pandas objects as the underlying data container for computation
- ☐ Bokeh is a Python interactive visualization library for small datasets
- ☒ All of the mentioned

0/1

ATTEMPTED

22.

1. Pandas is an open-source _____ Library?

1/1

ATTEMPTED

- ☐ Ruby
- ☐ Javascript
- ☐ Java
- ☒ Python

23. Which of the following is a reason that Pandas is used for analyzing the data?

1/1

ATTEMPTED

- ☐ It is fast, easy and expressive
- ☐ Flexible data manipulation
- ☐ Integrates well with matplotlib library
- ☒ All of these

24.

which function in Pandas is used to find the sum of all null values in a dataframe?

1/1

ATTEMPTED

- ☐ `df.isnull().sum()`
- ☐ `df.isna().sum()`
- ☒ both a and b
- ☐ `df.isnull().sum()`

25. What is the primary purpose of the Matplotlib library in Python?

1/1

ATTEMPTED



Data manipulation

☒ Data visualization

☐ Machine learning

☐ Database management

26. Which function is used to create a line plot in Matplotlib? 1/1

ATTEMPTED

☐ plt.plot_line()

☐ plt.line()

☒ plt.plot()

☐ plt.add_line()

27. How do you add a title to a Matplotlib plot?

1/1

ATTEMPTED

☒ plt.title("My Title")

☐ plt.set_title("My Title")

☐ plt.add_title("My Title")

☐ plt.title.add("My Title")

28. Which function is used to set the limits of the x-axis in a Matplotlib plot?

1/1

ATTEMPTED

☒ plt.xlim()

☐ plt.set_xlimits()

- ☐ plt.axis_limits()
- ☐ plt.x_axis_limits()

29. How can you create multiple plots in a single figure using Matplotlib?

1/1

ATTEMPTED

- ☐ Using plt.multiplot()
- ☒ Using plt.subplots()
- ☐ Using plt.add_subplot()
- ☐ Using plt.plot_subplots()

30. Which function would you use to save a Matplotlib figure to a file?

1/1

ATTEMPTED

- ☐ plt.save()
- ☒ plt.savefig()
- ☐ plt.write()
- ☐ plt.output()

31. What is the purpose of adding a legend to a Matplotlib plot?

ATTEMPTED

1/1

- ☐ To enhance the aesthetic appeal of the plot.
- ☒ To provide a key to distinguish between different datasets or plot elements.
- ☐ To show the exact data values.



To summarize the analysis performed on the data.

32. How can you specify the location of the legend in a Matplotlib plot?

1/1

ATTEMPTED

- ☐ By using `plt.legend(location='best')`
- ☐ By using `plt.legend(position='top')`
- ☒ By using `plt.legend(loc='upper right')`
- ☐ By using `plt.legend(pos='center')`

33. Which parameter can you use in `plt.title()` to change the font size of the title?

1/1

ATTEMPTED

- ☒ `fontsize`
- ☐ `size`
- ☐ `font_size`
- ☐ `title_size`

34. How can you set the x-axis to a logarithmic scale?

1/1

ATTEMPTED

- ☒ `plt.xscale('log')`
- ☐ `plt.set_xscale('log')`
- ☐ `plt.scale_x('log')`
- ☐ `plt.x_axis_log()`

35. What is the primary purpose of the Seaborn library in Python? ATTEMPTED

1/1

- ☐ Data manipulation
- ☐ Machine learning
- ☒ Data visualization
- ☐ Statistical modeling

36. Which function is used to create a heatmap in Seaborn? 1/1 ATTEMPTED

- ☒ `sns.heatmap()`
- ☐ `sns.create_heatmap()`
- ☐ `sns.plot_heatmap()`
- ☐ `sns.heat_map()`

37. What parameter controls the bandwidth of the KDE in Seaborn?

1/1

ATTEMPTED

- ☒ `bw_adjust`
- ☐ `bandwidth`
- ☐ `bw`
- ☐ `adjust`

38. How can you overlay multiple KDE plots for different groups in a single graph?

1/1

ATTEMPTED

- ☒ `sns.kdeplot(data1)` and `sns.kdeplot(data2)`
- ☐ `sns.kdeplot(data1, overlay=True)`
- ☐ `sns.kdeplot([data1, data2])`
- ☐ `sns.kdeplot(data1, data2)`

39. How can you set the x-axis limits when creating a KDE plot in Seaborn?

1/1

ATTEMPTED

- ☐ `sns.kdeplot(x).set_xlim(left, right)`
- ☐ `sns.kdeplot(x, xlim=(left, right))`
- ☒ `plt.xlim(left, right)` after plotting
- ☐ `sns.kdeplot(x, limit=(left, right))`

40.

Numpy developed by?

1/1

ATTEMPTED

- ☐ Guido van Rossum
- ☒ Travis Oliphant
- ☐ Wes McKinney
- ☐ Jim Hugunin

41.

Which of the following Numpy operation are correct?

1/1

ATTEMPTED

- ☐ Mathematical and logical operations on arrays.

- ☐ Fourier transforms and routines for shape manipulation.
- ☐ Operations related to linear algebra.
- ☒ All of the above

42.

The most important object defined in NumPy is an N-dimensional array type called?

☒ ndarray

1/1

ATTEMPTED

☐ ndarray

☐ nd_array

☐ darray

43.

The basic ndarray is created using?

☒ `numpy.array(object, dtype = None, copy = True, subok = False, ndmin = 0)`

0/1

ATTEMPTED

☐ `numpy.array(object, dtype = None, copy = True, order = None, subok = False, ndmin = 0)`

☐ `numpy_array(object, dtype = None, copy = True, order = None, subok = False, ndmin = 0)`

☐ `numpy.array(object, dtype = None, copy = True, order = None, ndmin = 0)`

44.

Which of the following statement is false?

☒ ndarray is also known as the axis array.

1/1

ATTEMPTED

- ☐ ndarray.dataitemSize is the buffer containing the actual elements of the array.
- ☐ NumPy main object is the homogeneous multidimensional array
- ☐ In Numpy, dimensions are called axes

45. What will be the output of the following Code: Import pandas as pd
import numpy as np s=pd.Series(np.random.randn(4)) print s

ATTEMPTED

0/1

- ☐ 0
- ☐ 1
- ☐ 2
- ☒ 3

46.

What is the output of the following?

```
import numpy as np
```

```
x=np.array([1,2,3,6,10])
```

```
y=x
```

```
z=np.copy(x)
```

```
print(x)
```

```
print(y)
```

```
print(z)
```

- ☐ [1,2,3,6,10] [1,2,3,6,10]
- ☒ [1,2,3,6,10] [1,2,3,6,10] [1,2,3,6,10]
- ☐ [1,2,3,6]

1/1

ATTEMPTED

- ☐ [1,2,3,6] [1,2,3,6,10]

47.

What will be output for the following code?

```
import numpy as np  
  
ary = np.array([1,2,3,5,8])  
  
ary = ary + 1  
  
print (ary[1])
```

- ☐ 0

1/1

ATTEMPTED

- ☐ 1

- ☐ 2

- ☒ 3

48.

What will be output for the following code?

```
import numpy as np  
  
a = np.array([1,2,3])  
  
print a
```

- ☐ [[1, 2, 3]]

1/1

ATTEMPTED

- ☐ [1]

- ☒ [1,2,3]

- ☐ None

49. Which of the following represents the number of dimensions in ndarray?

1/1

ATTEMPTED

- ☒ ndim
- ☐ shape
- ☐ size
- ☐ dtype

50. Which of the following returns the data type of elements in the array?

1/1

ATTEMPTED

- ☐ ndim
- ☐ shape
- ☐ size
- ☒ dtype