

Big Data and Analytics

Free Data Science with Python Practice Test

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Data Science with Python

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	Explanations	
50	6	12
Questions	Correct Answers	% Correct Answers

	} function returns its argument with a modified shape, whereas the odifies the array itself.
reshap	pe; resize
resize;	reshape
reshap	pe2; resize
resize2	2; reshape2
Explanation	ns:
The reshape the array its	e function returns its argument with a modified shape, whereas the resize method modifies self.
2. Which o	of the following functions helps create a new array object that looks at the same
view	
Сору	
paste	
duplica	ate
Explanation	ns:
The copy fu	nction is used to create a new object that looks at the same data as the original array object.
3. Which c	of the following statements limits both x and y axes to the interval [0, 6]?
O plt.xlim	n(0, 6)
O plt.ylim	n(0, 6)
O plt.xylin	m(0, 6)
plt.axis	s([0, 6, 0, 6])

Explanations:	
olt.axis([0, 6, 0, 6]) statement limits both x and y axes to the interval [0, 6].	
4. In NumPy, what does the shape (2,3,2)	indicate?
2 rows, 3 columns, 2 ranks	
2 rows, 3 ranks, 2 columns	
2 rows, 3 columns, 2 elements	
2 rows, 3 elements, 2 ranks	
Explanations:	
Shape (2,3,2) in NumPy array indicates 2 rows,	3 ranks, 2 columns.
Heap map 3D surface Contour plot Error bar plot	
Explanations:	
An Error bar plot is used to visualize the uncerta functions.	ainty of data. Whereas, 3D surface is for visualizing 3D
6. In statistics, a Type II error occurs whe	n:
a null hypothesis is rejected but should no	t be rejected
a null hypothesis is not rejected but should	d be rejected

a test statistic is incorrect
a hypothesis is chosen incorrectly
Explanations:
A Type II error occurs when a null hypothesis is not rejected but should be rejected.
7. In BeautifulSoup, .parent is used to:
Navigate down
Navigate sideways
Navigate up
Navigate back and forth
Explanations:
8. In Beautiful Soup, which of the following is used to create a new tag?
new_tag()
add_tag()
append_tag()
create_tag()
Explanations:
.new_tag is the right method to create a new tag.
9. In BeautifulSoup, what are the options to search a web tree?
2 2 2 2 2 2 3 4 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
find()

findall()	
search()	
searchall()	
Explanations:	
Find() and findall() are the searching tree options in BeautifulSoup. Find() and findall() are the searching tree options in BeautifulSoup.	
10. We need to define an index in Pandas.	
TRUE	
FALSE	
Explanations:	
Index assignment happens automatically in Pandas.	
11. In Pandas series, data can be accessed through different functions such as: loc()	
v iloc()	
access()	
get()	
Explanations:	
Explanations: loc() and iloc() are the right methods to access elements in a Pandas Series. loc() and iloc() are the right methods to access elements in a Pandas Series.	
loc() and iloc() are the right methods to access elements in a Pandas Series.	
loc() and iloc() are the right methods to access elements in a Pandas Series. loc() and iloc() are the right methods to access elements in a Pandas Series.	

Will be marked as NaN	
Will throw an exception, index not for	und
Explanations:	
The missing labels will be marked as NaN	l (Not a Number).
13. Which function will you use from to radians?	the NumPy library to convert the angles from degrees
radians(x[, out])	
degree(x[, out])	
rad2deg(x[, out])	
convert(x[, out])	
Explanations:	
To convert an angle from degrees to radia	ans, a rad2deg function is used.
14. Which of the following structures Pandas?	s is used for three-dimensional data analysis in
O DataFrame	
Panel	
Series	
Panel 3D	
Explanations:	
Donal is mat the common by your didate atmy	acture in Pandas. However, it is used to analyze 3-dimensional

15. How can you view the first 10 records in a Pandas DataFrame?

top(10)
get(10)
head(10)
first(10)
Explanations:
The head(n) method gives the number of records mentioned as n in the parentheses.
16. What does the following code do? import pandas as pd df = pd.read_csv('log-access_file.csv')
Imports pandas directory
Loads a csv file into a DataFrame
Initiates a program in pandas
Ends a program in pandas
Explanations:
The purpose of this code is to load a csv file using the pandas DataFrame structure.
17. Who is a data scientist?
Mathematician
Statistician
Software programmer
All of the above
Explanations:
Data scientists work on a huge amount of data points (unstructured and structured), and use their math,

statistics, and programming skills to clean and organize them. So, essentially, they are all these.

18. In NLP, stemming is a technique to:
split words, phrases, idioms
map valid word root
discover topics in a collection of documents
determine where one word ends and other begins
Explanations:
Stemming is a technique to map valid root word while processing a document through Natural Language Process (NLP)
19. Predict the correct output of the following code: >>>a=np.arange(6) >>>print(a)
[0 1 2 3 4 5]
[0, 1 2, 3 4,5]
[0 1 2 3 4 5]
[0 1 2 3]
Explanations:
The given command will generate a one-dimensional array of 6 numbers.
20. In Machine learning, predictive modeling works on:
train and test data set
features
responses
labels

Explanations:		
	Predictive modeling requires a train and test data set which can be built from the provided dataset using nachine learning techniques (train and split).	
21. If a database create one?	e is imported, and there is no index for its values and dates, how do you	
df.set_index('	Date' = True)	
df.set_index('	Date'= true, in place = True)	
df.set_index('	Date', in place = True)	
df.set_index(i	n_place=True)	
Explanations:		
Pandas set.index f in place = True).	function can be used to create an index. The correct syntax will be: df.set_index('Date',	
22 A aliant road	ling data from the LIDEC file evetors in Lladeen	
22. A client read	ling data from the HDFS file system in Hadoop	
	ling data from the HDFS file system in Hadoop In the NameNode	
gets data fron		
gets data from	m the NameNode	
gets data from gets both data gets the block	m the NameNode a and block location from the NameNode	
gets data from gets both data gets the block gets only the	m the NameNode a and block location from the NameNode k location from the DataNode	
gets data from gets both data gets the block gets only the Explanations:	m the NameNode a and block location from the NameNode k location from the DataNode	
gets data from gets both data gets the block gets only the Explanations: A client gets the block	a and block location from the NameNode k location from the DataNode block location from the NameNode lock location from the NameNode	
gets data from gets both data gets the block gets only the Explanations:	a and block location from the NameNode k location from the DataNode block location from the NameNode lock location from the NameNode	

Python	
Java and Python	
Explanations:	
Hadoop is written in Java.	
24. In Spark, RDDs can be created from the datasets stored exter	nally
○ TRUE	
○ FALSE	
Explanations:	
In Spark, RDDs can be created from the datasets stored externally and from	n internally stored datasets.
25. MapReduce was devised by Google	
Microsoft	
Apple	
Samsung	
Explanations:	
MapReduce was devised by Google.	
26. In BeautifulSoup,how can you remove all modified tags?	
tag.clean()	
tag.clear()	
tag.replace()	

tag.remove()	
Explanations:	
tag.clear() removes all the data modified tag for the given tag object.	
27. In BeautifulSoup , how can you view tag attributes?	
tag.attrs	
tag.getAttr()	
tag.getAttributes()	
Explanations:	
tag.attrs gives all the attributes associated with a tag object.	
28. Who developed the BeautifulSoup library? Python.org	
Crummy	
WinPython	
Scipy.org	
Explanations:	
Crummy developed the Beautiful Soup library.	
,, ,,,,,,,,,,,,,,,,,,	
29. Which of the following parsers has an external C dependency?	

O Python's html.parser
None of the above
Explanations:
lxml parser has an external C dependency.
30. Which of these classes can be used to parse a part of a document?
BeautifulSoup
O Parse only
SoupStrainer
None of the above
Explanations:
SoupStrainer class can be used to parse a part of a document.
31. Which of the following operations is performed by Search Engines?
Search Engine Optimization
Web Scrapping
Web Automation
Web Indexing
Explanations:
Web Indexing is performed by the Search Engines.
32. How can you edit the Navigable String?
With update()

With rename()	
Can't edit Navigable String	
with append()	
Explanations:	
It is not possible to edit the Navigable S	String, but we can replace it.
33. Which of the following parsers	s cannot be used for parsing a part of a document?
html5lib	
○ lxml	
Both A and B	
None of the above	
Explanations:	
With html5lib, it is not possible to parso	e a part of a document.
34. Which of the following is a ver	ry slow parser?
○ lxml	
html5lib	
O Python's html.parser	
None of the above	
Explanations:	
html5lib is one of the slowest parsers.	

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 $feature_extraction.text.CountVectorizer([...])$

Converts a collection of text documents to a matrix of token counts
Converts a collection of text documents to an array of token counts
Transforms the newsgroup dataset into an array
O Invalid code
Explanations:
The Scikit-learn function extracts and converts a collection of text documents to a matrix of token counts.
36. How will you save a plot as a PNG image in matplotlib?
save fig('Fig1.png')
pylab.savefig
pylab.savefig('Fig1.png')
None of the above
Explanations:
The function pylab.savefig helps save a plot in the required format.
37. Which of the following methods is used to create a model in Scikit-learn?
○ Fit
Predict
O Both A and B
None of the above
Explanations:
The "fit" method is used to develop a model from the data in scikit-learn.

38. In the Kmeans clustering technique, which method sets the number of clusters?
Cluster=3
Cluster(3)
Explanations:
The n_clusters parameter sets the number of clusters in Kmeans clustering technique.
39. Which of the following is an important component of the text processing pipeline?
CountVectorizer
☐ TfidfTransformer
Regression estimator
Both A and B
Explanations:
CountVectorizer and TfidfTransformer are important parts of the text processing pipeline.
40. What is the operation conducted by the following code line?>>>for link in soup.find_all('a'):print(link.get('href'))
Finding all the "a" tags
Extracting all the URLs found within a page's <a>tags
Error in first line
Error in second line

Explanations:

his code snippet extracts all the URLs found within a page's <a> tags.	
11. Which of the following is useful to save a model?	
Pickle	
Joblib	
Both A and B	
None of the above	
explanations:	
Both pickle and joblib are useful to save a model.	
Second line	
Both the lines	
Both lines have errors	
Explanations:	
Both the code lines have a valid syntax.	
3. Which of the following code snippets is used to print all the tag childre	en?
for child in head_tag.descendants: print(child)	
for child in title_tag.children: print(child)	
soup.Contents	
None of the above	

Explanations:	
The descendants attribute is used to print all tag children.	
44. To find out unique target classes in the dataset, which of the following couseful?	ode snippet is
dataset.target	
np.unique(dataset.target)	
sklearn.unique(dataset.target)	
sklearn.unique(dataset.y)	
Explanations:	
np.unique(dataset.target) is used to find out unique target classes in the dataset.	
45. What is the built-in database used for Python?	
mysql	
pysqllite	
sqllite3	
pysqln	
Explanations:	
sqllite3 is the database which is provided and can be used within Python programs reac	dily.
46. Is the following slicing technique right? >>tuple[-4]	
○ TRUE	
FALSE	

Explanations:	
A negative index ca	an be used to slice a tuple with the first index stating from -1 from the right.
47. Which library	is used to check the accuracy of a predictive model in sklearn?
metrics	
test_accuracy	
validate	
check_score	
Explanations:	
_	library which needs to be imported from sklearn and then the accuracy_score() ed to check the accuracy of predictive model.
getKeys()	view only keys in a basic data structure dictionary?
keys()	
fetchKeys()	
receiveKeys()	
Explanations:	
keys() is the right n	nethod to get all the keys in a dictionary.
49. Which of the to 3?	following is a useful technique to reduce the number of dimensions from \$
K-means clust	ering
Affinity Propag	gation

Principal Component Analysis		
Hierarchical Clustering		
Explanations:		
Principal Component Analysis is the technique used for dimensionality reduction.		
50. in method returns a boolean value.		
TRUE		
○ FALSE		
For long Atlanta		
Explanations:		
in method of basic python returns boolean values.		

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FAQs

Will this practice test helps in clearing the actual certification exam?

Yes, this practice test gives you a simulated test like environment as you would experience in the actual test. The questions in the practice test are much like the questions of the Data Science certification exam.

What is included in this practice test?

What is the Data Science with Python Practice Test?

Can I retake this Practice Test?

Who can take up this Data Science with Python Certification mock test?

Are these the same questions I'll see on the real exam?

What will I learn from this practice test?

I didn't do well on this practice test. What should I do now?

What are the requirements to take this practice test?

Will the Practice Tests be updated frequently?

Recommended Resources



Python Interview Guide

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Data Science Career Guide: A comprehensive playbook to becoming a Data Scientist



Data Science Interview Guide



Top Job Roles in the Field of Data Science

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