dhilipkumar.m0007@gmail.com v

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Python for Data Science (course)



Click to register for Certification exam

(https://examform.nptel.ac

If already registered, click to check your payment status

Course
outline

About NPTEL
()

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 3: Assignment 3

Assignment not submitted

1) Which of the following is the correct approach to fill missing values in case of categorical variable?

1 point

Due date: 2025-02-12, 23:59 IST.

- O Mean
- Omedian
- O Mode
- O None of the above

Assume a pandas dataframe df_cars which when printed is as shown below. Based on this information, answer questions 2 and 3.

Car	name	Туре	Brand	Price	(in lakhs)
0	A2	Sedan	ASP		15
1	C3	SUV	TRE		20
2	D2	Hatchback	ASP		14
3	АЗ	Sedan	TOY		13
4	C6	MUV	TOY		18

Reading data (unit? unit=41&lesson	2) Of the following set of statements Type as a separate dataframe?	s, which of them can be used to extract the column	1 point			
=42)	df_cars[['Type']]					
Pandas	☐ df_cars.iloc[[:, 1]					
Dataframes I (unit? unit=41&lesson	df_cars.loc[:, ['Type']]					
	☐ None of the above					
=43)	3) The method df_cars.describe() w	vill give description of which of the following column?	1 point			
Pandas Dataframes II (unit? unit=41&lesson =44)	O Car name					
	○ Brand					
	O Price (in lakhs)					
	O All of the above					
Pandas Dataframes III (unit?	4) Which pandas function is used to	o stack the dataframes vertically?	1 point			
unit=41&lesson =45)	Opd.merge()					
Control	Opd.concat()					
structures & Functions (unit? unit=41&lesson =46)	○ join()					
	O None of the above					
	5) Which of the following are libraries in Python? 1 point					
Exploratory data analysis (unit? unit=41&lesson =47)	Opandas					
	O Matplotlib					
	O NumPy					
	O All of the above					
Data Visualization- Part I (unit?	Read the 'flavors_of_cocoa.csv' file as description of features/variables is give	s a dataframe 'df_cocoa' and answer questions 6-9. Then below:	ne			
unit=41&lesson	Variable	Description				
=48)	ID	Serial no.				
 Data Visualization- Part II (unit? unit=41&lesson =49) Dealing with missing data (unit? unit=41&lesson =50) 	Company	Name of a manufacturing compar	ny			
	Bean Origin Place of origin of cocoa bean					
	Review Data Year in which chocolates were rated					
	Cocoa percent Percentage of cocoa in chocolate					
	Company Location Location of a manufacturing company					
	Rating					
	6) Which of the following variable has	ave null values?	1 point			
Datasets (unit? unit=41&lesson	OID					

=51)	○ Company
• Week 3:	O Review Date
Lecture slides (unit?	○ Rating
unit=41&lesson	7) Which of the following countries have maximum locations of cocoa manufacturing 1 point
=52)	companies?
Week 3 - FAQs	O ∪ .K.
(unit? unit=41&lesson	○ U.S.A.
=53)	○ Canada
• Week 3	○ France
Feedback Form	
: Python for Data Science	8) After checking the data summary, which feature requires a data conversion considering 1 point
(unit?	the data values held?
unit=41&lesson	○ Rating
=115)	O Review date
Practice: Week	○ Company
3: Practice Assignment 3	○ Bean origin
(assessment?	
name=158)	9) What is the maximum rating of chocolates? 1 point
Quiz: Week 3:	○ 1.00
Assignment 3 (assessment?	○ 5.00
name=162)	○ 3.18
Week 4 ()	O 4.00
	10) What will be the output of the following code? 1 point
Supporting	ro) what will be the output of the following code?
material for	import numpy as np
Week 4 ()	
Download	B = [True, 2, 3.0, np.nan, "False"]
Videos ()	[type(i) for i in B]
Books ()	
	◯ [bool, int, float, float, str]
Text	[str, int, float, float, str]
Transcripts ()	○ [bool, int, float, int, str]
Problem	[bool, int, int, float, str]
Solving	
Session - Jan	11) What does df.info() provide? 1 point
2025 ()	Summary of the DataFrame, including the number of non-null entries.
	O The first 5 rows of the DataFrame

- O The data types of the columns
- O The correlation matrix of the DataFrame

12) What will be the output of the following code?

1 point

```
import numpy as np
arr = np.array([1, 2, 3, 4, 5])
print(arr[::2])
```

- O[1, 2]
- O[1, 3, 5]
- O[1, 2, 3, 4, 5]
- \bigcirc [5, 4, 3, 2, 1]

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers