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



Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

- Reading data (unit? unit=41&lesson=42)
- Pandas
 Dataframes I
 (unit?
 unit=41&lesson=43)
- Pandas
 Dataframes II
 (unit?
 unit=41&lesson=44)
- Pandas
 Dataframes III
 (unit?
 unit=41&lesson=45)

Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-02-15, 23:59 IST.

As per our records you have not submitted this assignment.

- 1) Which of the following is the correct approach to fill missing values in case of **1 point** categorical variable?
 - Mean
 - Median
 - Mode
 - None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Mode

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

	Car	name	Type	Brand	Price (in lakhs)
0		A2	Sedan	ASP	15
1		C3	SUV	TRE	20
2		D2	Hatchback	ASP	14
3		A3	Sedan	TOY	13
4		C6	MUV	TOY	18

	2) Of the following set of statements, which of them can be used to extract the column	1 noint		
Control structures &	Type as a separate dataframe?	i i point		
Functions				
(unit?	df cars[['Type']]			
unit=41&lesson=46)	df cars.iloc[[:, 1]			
Exploratory	df cars.loc[:, ['Type']]			
data analysis	None of the above			
(unit? unit=41&lesson=47)	No, the answer is incorrect.			
	Score: 0			
DataVisualization-	Accepted Answers: df cars[['Type']]			
Part I (unit?	df cars.loc[:, ['Type']]			
unit=41&lesson=48)				
Data	3) The method df_cars.describe() will give description of which of the following	1 point		
Visualization-	column?			
Part II (unit?	○ Car name			
unit=41&lesson=49)				
Dealing with	Brand			
missing data (unit?	Price (in lakhs)			
unit=41&lesson=50)	All of the above			
Datasets	No, the answer is incorrect. Score: 0			
(unit?	Accepted Answers:			
unit=41&lesson=51)	Price (in lakhs)			
• Week 3:				
Lecture slides	4) Which pandas function is used to stack the dataframes vertically?			
(unit?	pd.merge()			
unit=41&lesson=52)	pd.concat()			
• Week 3 -	join()			
FAQs (unit? unit=41&lesson=53)	None of the above			
Practice: Week3: Practice	No, the answer is incorrect. Score: 0			
Assignment 3	Accepted Answers:			
(assessment?	pd.concat()			
name=96)	5) Which of the fellowing are lightening in Duthon?	d maint		
Quiz: Week 3:	5) Which of the following are liabraries in Python?	1 point		
Assignment 3	OPandas			
(assessment? name=104)	Matplotlib			
	NumPy			
Week 3Feedback	All of the above			
Form : Python	No, the answer is incorrect.			
for Data	Score: 0			
Science (unit? unit=41&lesson=100)	Accepted Answers:			
	All of the above			
Week 4 ()				
	Read the comma-separated values file hotel bookings.csv	oring)		
	(https://drive.google.com/file/d/1mlmTyULec38KJGkYACQMhuPDOc-vlJXk/view?usp=sh	iaring)		

Download Videos ()

Books ()

Text Transcripts () as a dataframe data hotel and answer questions 6 - 8. Please refer to Hotel Bookings Data Description.pdf

(https://drive.google.com/file/d/1kIJmX6m5qa1qaNu4SQRCwBWXWhVTUCcu/view?usp=sharing) for data and variable description.

6) Choose the appropriate command(s) to filter those booking details whose **1 point** reservation-status are a No-show?

```
data_hotel_ns = data_hotel.loc[data_hotel.reservation_status = 'No-Show']

data_hotel_ns = data_hotel[data_hotel.reservation_status == 'No-Show']

data_hotel_ns = data_hotel.reservation_status.loc[data_hotel.isin(['No-Show'])]

data_hotel_ns = data_hotel.loc[data_hotel.reservation_status.isin(['No-Show'])]

No, the answer is incorrect.
Score: 0

Accepted Answers:

data_hotel_ns = data_hotel[data_hotel.reservation_status == 'No-Show']

data_hotel_ns = data_hotel.loc[data_hotel.reservation_status.isin(['No-Show'])]
```

7) From the same data, find how many bookings were not canceled in the year 1 point 2017?

- 9064
- 6231
- 9046
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

9064

8) From the total bookings that were made in 2017 and not canceled, which month had **1 point** the highest number of repeated guests?

- July
- February
- January
- None of the above

No, the answer is incorrect.

Score: 0 Accepted Answers: 9) What will be the output of the following code? 1 point import numpy as np B = [True, 2, 3.0, np.nan, "False"] [type(i) for i in B] [bool, int, float, float, str] [str, int, float, float, str] o [bool, int, float, int, str] [bool, int, int, float, str] No, the answer is incorrect. Score: 0 Accepted Answers: [bool, int, float, float, str] 10) Which command is used to generate the plot shown below? 1 point 10 9 8 7 6 5 3 0.5 1.0 15 2.0 2.5 3.0 3.5 0.0 4.0 plt.plot(x, linestyle = "-") plt.plot(x, linestyle = "-") plt.plot(x, linestyle = "-.") plt.plot(x, linestyle = ":") No, the answer is incorrect. Score: 0 Accepted Answers: plt.plot(x, linestyle = "-")