SCSA2601-Machine Learning and Data Analytics Lab

Started on	Friday, 21 January 2022, 2:18 PM
State	Finished
Completed on	Friday, 21 January 2022, 2:52 PM
Time taken	33 mins 48 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Write a python program to read a CSV File (employee record - eg. salary dataset). Print column wise output. Do the following pre-processing functions on the dataframe created.

i) print rows, columns, size and shape of the corresponding dataset

ii) print the memory usage and dimensions of the corresponding dataset.

iii) print head and tail of the dataset with n value as 10

iv) print the values in 3rd column of the dataset fully and value at index [5,9].

Answer: (penalty regime: 0 %)

Quiz navigation

1

Finish review

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```
# import pandas as pd

# salary = pd.read_csv("Salary.csv")

# salary
# O/P
# YearsExperience   Salary
# 0 1.1 39343
# 1 1.3 46205
# 2 1.5 37731
# 3 2.0 43525
# 4 2.2 39891
# 5 2.9 56642
# 6 3.0 60150
# 7 3.2 54445
# 8 3.2 64445
# 9 3.7 57189
# 10    3.9 63218
# 11    4.0 55794
# 12    4.0 56957
# 13    4.1 57081
# 14    4.5 61111
```

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```
# 15    4.9 67938
# 16    5.1 66029
# 17    5.3 83088
# 18    5.9 81363
# 19    6.0 93940
# 20    6.8 91738
# 21    7.1 98273
# 22    7.9 101302
# 23    8.2 113812
# 24    8.7 109431
# 25    9.0 105582
# 26    9.5 116969
# 27    9.6 112635
# 28    10.3    122391
# 29    10.5    121872
# 30    11.2    127345
# 31    11.5    126756
# 32    12.3    128765
# 33    12.9    135675
# 34    13.5    139465

# # i)
```

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```
# # print rows
# print(salary)
# print()
# # print columns
# print(salary.columns)
# print()
# # print size
# print(salary.size)
# print()
# # print shape
# print(salary.shape)
# O/P
# YearsExperience  Salary
# 0              1.1   39343
# 1              1.3   46205
# 2              1.5   37731
# 3              2.0   43525
# 4              2.2   39891
# 5              2.9   56642
# 6              3.0   60150
# 7              3.2   54445
# 8              3.2   64445
```

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```
# 9              3.7   57189
# 10             3.9   63218
# 11             4.0   55794
# 12             4.0   56957
# 13             4.1   57081
# 14             4.5   61111
# 15             4.9   67938
# 16             5.1   66029
# 17             5.3   83088
# 18             5.9   81363
# 19             6.0   93940
# 20             6.8   91738
# 21             7.1   98273
# 22             7.9  101302
# 23             8.2  113812
# 24             8.7  109431
# 25             9.0  105582
# 26             9.5  116969
# 27             9.6  112635
# 28            10.3  122391
# 29            10.5  121872
# 30            11.2  127345
```

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```
# 31             11.5  126756
# 32             12.3  128765
# 33             12.9  135675
# 34             13.5  139465

# Index(['YearsExperience', 'Salary'], dtype='object')

# 70

# (35, 2)

# # ii)
# # print the memory usage
# print(salary.memory_usage())
# print()
# # print dimensions of the corresponding dataset
# print(salary.shape)
# O/P
# Index              128
# YearsExperience    280
# Salary             280
# dtype: int64
```

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```
111
112 # (35, 2)
113
114 # # iii)
115 # # print head of the dataset with n value as 10
116 # print(salary.head(10))
117 # print()
118 # # print tail of the dataset with n value as 10
119 # print(salary.tail(10))
120 # O/P
121 #   YearsExperience  Salary
122 # 0             1.1   39343
123 # 1             1.3   46205
124 # 2             1.5   37731
125 # 3             2.0   43525
126 # 4             2.2   39891
127 # 5             2.9   56642
128 # 6             3.0   60150
129 # 7             3.2   54445
130 # 8             3.2   64445
131 # 9             3.7   57189
132
```

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```
132
133 #     YearsExperience  Salary
134 # 25              9.0  105582
135 # 26              9.5  116969
136 # 27              9.6  112635
137 # 28             10.3  122391
138 # 29             10.5  121872
139 # 30             11.2  127345
140 # 31             11.5  126756
141 # 32             12.3  128765
142 # 33             12.9  135675
143 # 34             13.5  139465
144
145 # # iv)
146 # #print the values in 3rd column of the dataset
147 # #fully and value at index [5,9].
148 # val = salary['Salary'].values[5:9]
149 # val
150 # O/P
151 # array([56642, 60150, 54445, 64445], dtype=int64)
152
153 print(1)
```

```
144
145 # # iv)
146 # #print the values in 3rd column of the dataset
147 # #fully and value at index [5,9].
148 # val = salary['Salary'].values[5:9]
149 # val
150 # O/P
151 # array([56642, 60150, 54445, 64445], dtype=int64)
152
153 print(1)
```

	Input	Expected	Got	
✔	1	1	1	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Finish review

◀ 08.01.2022_Practice Learning Math Problems

Jump to...