



SCSA2601-Machine Learning and Data Analytics Lab

Dashboard / My courses / ML and DA / VIRTUAL PROGRAMMING CSE C1& D1 / 22.01.2022 Practice Lab Ex.Pandas Pre-Processing functions

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
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- 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



Finish review



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Answer: (penalty regime: 0 %)

```
1 # import pandas as pd
2
3 # salary = pd.read_csv("Salary.csv")
4
5 # salary
6 # O/P
7 # YearsExperience    Salary
8 # 0 1.1 39343
9 # 1 1.3 46205
10 # 2 1.5 37731
11 # 3 2.0 43525
12 # 4 2.2 39891
13 # 5 2.9 56642
14 # 6 3.0 60150
15 # 7 3.2 54445
16 # 8 3.2 64445
17 # 9 3.7 57189
18 # 10 3.9 63218
19 # 11 4.0 55794
20 # 12 4.0 56957
21 # 13 4.1 57081
22 # 14 4.5 61111
--
```



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```
23 # 15 4.9 67938
24 # 16 5.1 66029
25 # 17 5.3 83088
26 # 18 5.9 81363
27 # 19 6.0 93940
28 # 20 6.8 91738
29 # 21 7.1 98273
30 # 22 7.9 101302
31 # 23 8.2 113812
32 # 24 8.7 109431
33 # 25 9.0 105582
34 # 26 9.5 116969
35 # 27 9.6 112635
36 # 28 10.3 122391
37 # 29 10.5 121872
38 # 30 11.2 127345
39 # 31 11.5 126756
40 # 32 12.3 128765
41 # 33 12.9 135675
42 # 34 13.5 139465
43
44 # # i)
--
```



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```
45 # # print rows
46 # print(salary)
47 # print()
48 # # print columns
49 # print(salary.columns)
50 # print()
51 # # print size
52 # print(salary.size)
53 # print()
54 # # print shape
55 # print(salary.shape)
56 # O/P
57 # YearsExperience Salary
58 # 0          1.1    39343
59 # 1          1.3    46205
60 # 2          1.5    37731
61 # 3          2.0    43525
62 # 4          2.2    39891
63 # 5          2.9    56642
64 # 6          3.0    60150
65 # 7          3.2    54445
66 # 8          3.2    64445
-- -- --
```



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```
67 # 9          3.7  57189
68 # 10         3.9  63218
69 # 11         4.0  55794
70 # 12         4.0  56957
71 # 13         4.1  57081
72 # 14         4.5  61111
73 # 15         4.9  67938
74 # 16         5.1  66029
75 # 17         5.3  83088
76 # 18         5.9  81363
77 # 19         6.0  93940
78 # 20         6.8  91738
79 # 21         7.1  98273
80 # 22         7.9  101302
81 # 23         8.2  113812
82 # 24         8.7  109431
83 # 25         9.0  105582
84 # 26         9.5  116969
85 # 27         9.6  112635
86 # 28        10.3  122391
87 # 29        10.5  121872
88 # 30        11.2  127345
```


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```
89 # 31          11.5  126756
90 # 32          12.3  128765
91 # 33          12.9  135675
92 # 34          13.5  139465
93
94 # Index(['YearsExperience', 'Salary'], dtype='object')
95
96 # 70
97
98 # (35, 2)
99
100 # # ii)
101 # # print the memory usage
102 # print(salary.memory_usage())
103 # print()
104 # # print dimensions of the corresponding dataset
105 # print(salary.shape)
106 # O/P
107 # Index          128
108 # YearsExperience 280
109 # Salary          280
110 # 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 # 0/P
151 # array([56642, 60150, 54445, 64445], dtype=int64)
152
153 print(1)
```


	Input	Expected	Got	
✓	1	1	1	✓

Correct

Finish review

Jump to...