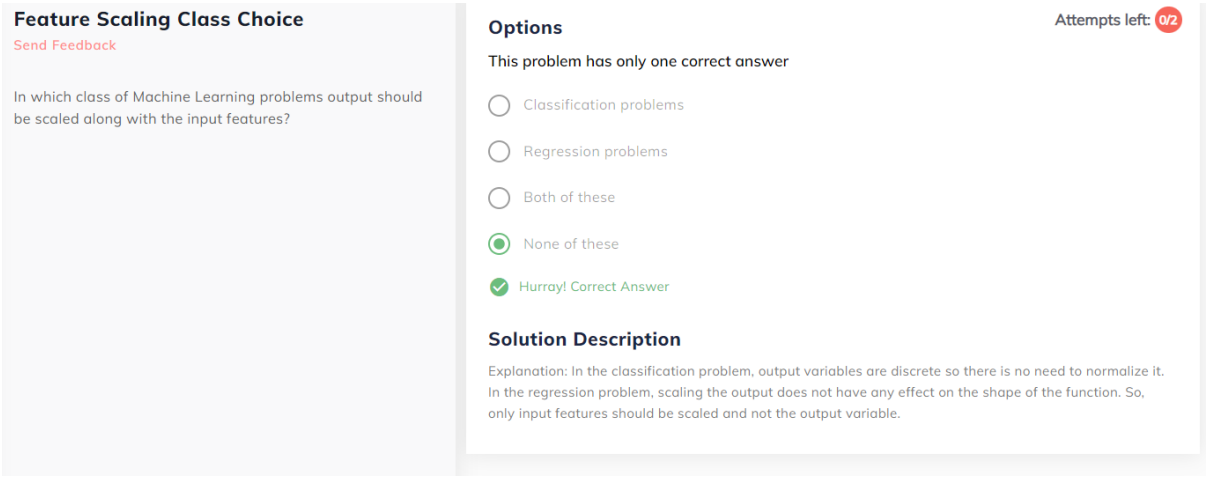
Feature Scaling Questions:

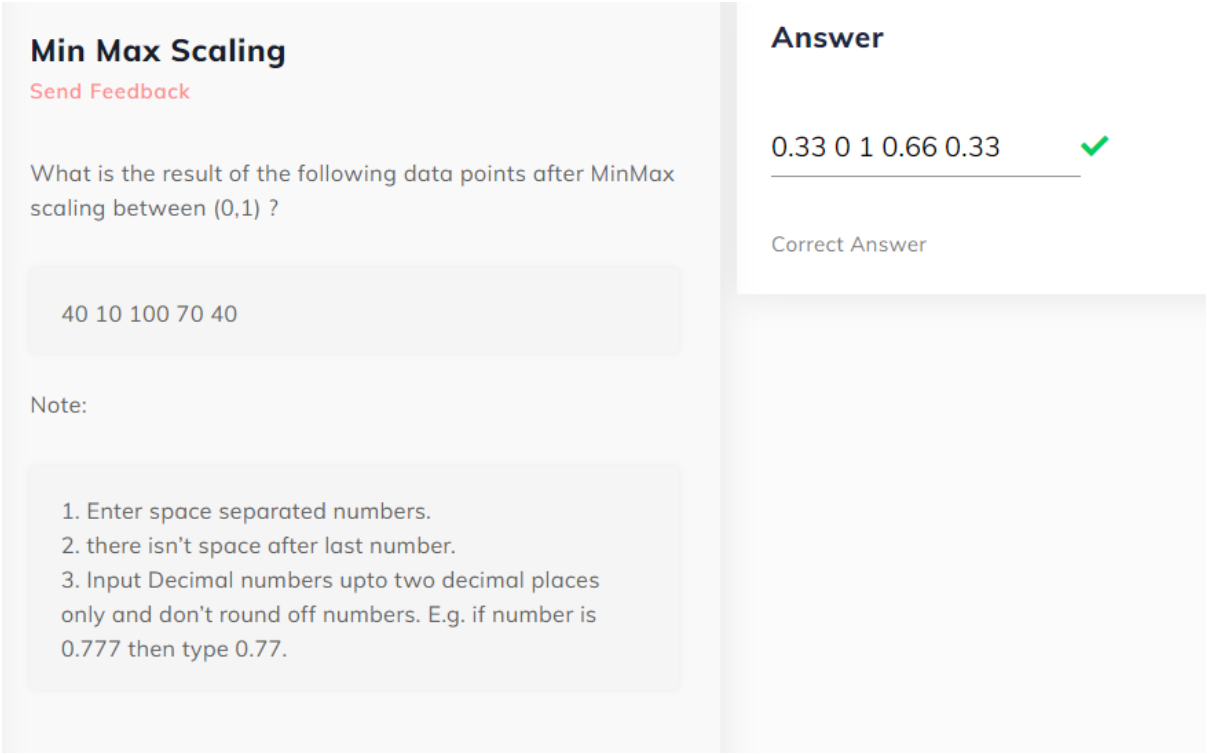
Feature Scaling

MCQ Questions

1.



2.



3.

Ans MinMax Scaling

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What is the result of the following data points after MinMax scaling between (5,20)?

40 10 100 70 40

(Enter space-separated numbers in the blank)

(Round off the output to closest integer value.)

Answer

10 5 20 15 10 ✔

Correct Answer

Hint:

1. Find the minimum and maximum values in your data set:
   - Minimum: 10
   - Maximum: 100
2. Use the MinMax scaling formula for each data point (x):
   - scaled_x = (x - min) / (max - min)

Let's calculate the scaled values for your data points:

- For 40:
  scaled_40 = (40 - 10) / (100 - 10) = 30 / 90 = 1/3

Now, you want to scale these values to the range between 5 and 20:

- Scaled 1/3 to the new range:
  scaled_value = (1/3) * (20 - 5) + 5
  scaled_value = (1/3) * 15 + 5
  scaled_value = 5 + 5 = 10

Feature Scaling in Sklearn

MCQ Questions

1.

Problem | Result

Sklearn Feature Scaling

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Which of the following present in sklearn is used for feature scaling?

You have max 2 attempts to score in this question.

Options Attempts left: 1/2

This problem has only one correct answer

- ○ Pipeline
- ◉ Preprocessing
- ○ Ensemble
- ○ Preprocessor

Hurray! Correct Answer

2.

Sklearn Preprocessing Default

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Which of the following does sklearn.preprocessing do by default

Options Attempts left: 1/2

This problem may have one or more correct answers

- ☑ scale the data to unit variance✔
- ☐ inplace scaling
- ☑ center the data before scaling✔
- ☐ None of the above

Hurray! Correct Answer

3.

Sklearn Output

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What should be the output of the following (in terms of zero or non-zero):

```
import numpy as np
from sklearn.preprocessing import StandardScaler
data = [[0, 3], [9, 4], [2, 7], [1, 1]]
scaler = StandardScaler()
scaler.fit(data)
first = scaler.transform(data)
second = scaler.transform([[2, 13], [1, 4], [10, 7], [1, 9]])
print(first.sum())
print(second.sum())
```

Options Attempts left: 0/2

This problem has only one correct answer

- ○ 8th line: zero, 9th line: non-zero
- ○ 8th line: non-zero, 9th line: non-zero
- ◉ 8th line: non-zero, 9th line: zero
- ○ 8th line: zero, 9th line: zero

The solution to this problem has been viewed